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onigle Excit From Expressed III Tetal Liver	Top Hit Descriptor Source	UMAN Ib33e09.x1 NCI_CGAP_HSC2 Homo sapiens cDNA clone IMAGE:2058168 3'	UMAN P33909 X1 NCI_CGAP_HSC2 Homo sapiens cDNA clone IMAGE:2056168 3:	UMAN QV2-NT0045-200600-250-h07 NT0046 Homo sapiens cDNA	UMAN UI-H-BIO-aat-f-05-0-UI.s1 NCI_CGAP_Sub1 Homo sapiens cDNA clone IMAGE:2710425 3	Gallus gallus Dach2 protein (Dach2) mRNA, complete cds	Г		7	٦		Homo sapiens T cell receptor beta locus, TCRBV7S3A2 to TCRBV12S2 region	Homo sapiens SPP2 gene for secreted phosphoprotein 24 precursor, exons 1-8	Homo sapiens mRNA, chromosome 1 specific transcript KIAA0486	zi34b08.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:432663 3' similar to		234b08.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:432663 3' similar to		Homo sapiens PP1200 mRNA, complete cds	lak48g11.s1 Soares_testis_NHT Homo sepiens cDNA clone IMAGE:14092523' similar to contains LTR1.t3	Т	WAZASOSA I NO COAT OU TONIO SEPTEMBER CONTROL NACE: 2463010 5 SIMILET TO 17:000/54 COURS. UMAN (LINE-1 LIKE PROTEIN ; contains L1.12 L1 repetitive element;	Г	Г	yb78b10.r1 Stratagene ovary (#537217) Homo sapiens cDNA clone IMAGE:77275.5' similar to contains L1 IMAM repetitive element	Т	(terminus.)	Human glyceraldehyde-3-phosphate dehydrogenase (GAPDH) gene, complete cds	Human glyceraldetyde-3-phosphate dehydrogenase (GAPDH) gene, complete cds	Г	PROT LINE-1 REVERSE TRANSCRIPTASE HOMOLOG	
פראסוו		EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	ΙŻ	EST_HUMAN	1	EST HOMAN	ż	SWISSPROT	LZ.	LN.	ž		EST_HUMAN		EST_HUMAN	ž	FRT HIMAN		EST HUMAN	EST HUMAN	EST_HUMAN	FST HUMAN		호	ž	ž	EST_HUMAN	SWISSPROT	
Bills	Top Hit Acession No.	4.0E-06 A1334928.1	4.0E-06 AI334928.1	4.0E-06 BF365612.1	4.0E-06 AW015401.1	4.0E-06 AF198349.1	4.0E-06 AW848295.1	7 00000	4.0E-06 A1886939.1	4.0E-06 AL 163279.2	4.0E-06 015393	4.0E-06 AF009660.1	4.0E-06 AJ272265.1	4.0E-06 AB007955.1		3.0E-06 AA700562.1		3.0E-06 AA 700562.1	3.0E-06 AF202635.1	3 0E-08 4 A BRB 21R 1		3.0E-06 AIB57779.1	3.0E-06 BE047094.1	3.0E-06 BE047094.1	3 0E-06 T50266 1		3.0E-06 X54816.1	3.0E-06 J04038.1	3.0E-06 J04038.1	3.0E-06 AU159412.1	3.0E-06 P08548	
	Most Similar (Top) Hit BLAST E Value	4.0E-08	4.0E-08	4.0E-06	4.0E-08	4.0E-06	4.0E-06	70 10,	4.0E-06	4.0E-06	4.0E-06	4.0E-06	4.0E-08	4.0E-06		3.0E-08		3.0E-06	3.0E-08	3 0E-08	22	3.0E-06	3.0E-06	3.0E-06	3 0E-08		3.0E-06	3.0E-06	3.0E-06	3.0E-06	3.0E-06	200
	Expression Signal	3.92	3.92	3.17	1.68	1.26	1.35	90,	8	2.12	0.53	2.66	1,11	3.84		1.31		1.31	1.54	1 02		2.41	1.06	1.06	89.0		4.82	0.94	9.0	0.78	2.79	(C) (C)
	ORF SEQ ID NO:	26499	26500	26651	27454	28186	23030	30067	LCRR7	30070	33880	34195	35088	36031		27357		27358		28038			28911	28912	. 29600		29697	30063	30064	31689		00,00
	Exon SEQ ID NO:	1			14878		16561	17505	- }	17626	- 1		22124			14784		14784	14879	15584		15915	16449	16449	17156	1	17243	17818		18915	19808	90.00
	Probe SEO ID NO:	1379	1379	1522	2305	3099	3963	000	055	5053	8436	8735	9624	11324		2208		2208	2307	8700		3304	3851	3851	4573		4861	5045	5045	6308	7280	2000

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	В О П П П П П П П П П П П П П П П П П П	Expression Signal 13.37 2.91 2.91 1.79 1.104 1.79 0.89 0.89 0.59 0.59 0.59 0.59 0.59	8 m	5		Top Hit Descriptor RCO-LT0001-281199-011-A03 LT0001 Homo sapiens cDNA HOMEOBOX PROTEIN GOOSECOID POL POLYPROTEIN GOOSECOID POLYPROTEIN GOOSECOID Wed-4603 x1 NOL CGAP_Kid11 Homo sapiens cDNA clone IMAGE:22207088 3' similar to contains MER30 bt MER30 repetitive element; HISTIDINE-RICH GLYCOPROTEIN PRECURSOR KINOB-ASSOCIATED HISTIDINE-RICH PROTEIN PRECURSOR (KAHRP) HISTIDINE-RICH GLYCOPROTEIN PRECURSOR KINOB-ASSOCIATED HISTIDINE-RICH PROTEIN PRECURSOR (KAHRP) AV657555 GLC Homo sapiens cDNA clone GLCFDB05 3' similar to contains All repetitive element; UI-HB13-aky-g-05-0-UI s1 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:258609 3' similar to TR:013537 Mus musculus gene for odorent receptor A16, complete cds 00:34-h01 s1 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:158609 3' similar to TR:013537 (01:553 MER37 TRANSPOSABLE ELEMENT. COMPLETE CONSENSUS SEQUENCE.: WIGD06-XI NCI_CGAP_LM12 Homo sapiens cDNA clone IMAGE:2140083 3' WIR3-SN006-1/20400-002-f02 SN0067 Homo sapiens cDNA A447R Heart Homo sapiens cDNA clone A407 A776-11 s1 Sceres_pineal_gland_N3HPG Homo sapiens cDNA A447R Heart Homo sapiens cDNA clone A407 REPATIN, TYPE II CYTOSKELETAL 8 (HUMAN) WARTHIN YPPE III CYTOSKELETAL 8 (HUMAN) Homo sapiens glypican 3 (GPC3) gene, partial cds and flanking repeat regions Homo sapiens glypican 3 (GPC3) gene, partial cds and flanking repeat regions
- 1	35080	0.72	- 1	2.0E-06 N30576.1	EST_HUMAN	yw68e03.s1 Soares_placenta_8to9weeks_2NbHP8to9W Homo sapiens cDNA clone IMAGE:257212 3: AV748999 NPC Homo sapiens cDNA clone NPCAXD05 5:
9833 22331	30508			AV748969.1 P23249	SWISSPROT	AV 748659 NPC Homo sepiens cuna done NPCAXD05 5 PROTEIN MOV-10
12210 24434	1		1	0E-06 BE328232.1	EST HUMAN	hs92/02.x1 NCI_CGAP_Kid13 Homo sapiens cDNA clone IMAGE:3144699 3' similar to contains L1.t2 L1 repetitive element
L	5 25174			DE-06 O76082	SWISSPROT	ORGANIC CATION/CARNITINE TRANSPORTER 2 (SOLUTE CARRIER FAMILY 22, MEMBER 5) (HIGH- AFFINITY SODIUM-DEPENDENT CARNITINE COTRANSPORTER)
			1.0E-06	64.1	ĻΝ	Mus musculus D6MM5E protein (D6Mm5e) mRNA, complete cds
1500 14092	2 26631	2.08	1.0E-06	0E-06 P09125	SWISSPROT	MEROZOITE SURFACE PROTEIN CMZ-8

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Single Exon Probes Expressed in Fetal Liver	Top Hit Descriptor	Homo sapiens chromosome 21 segment HS21C078	DNA-DIRECTED RNA POLYMERASE III LARGEST SUBUNIT	Homo saplens p47-phox (NCF1) gene, complete cds	Homo sapiens p47-phox (NCF1) gene, complete cds	Human ABL gene, exon 15 and intron 1b, and putative M8604 Met protein (M8604 Met) gene, complete cds	Homo sapiens chromosome 21 segment HS21C085	Homo sapiens chromosome 21 segment HS21C085	MR1-BT0800-030700-002-c06 BT0800 Homo saplens cDNA	MR3-FN0004-090600-001-e04 FN0004 Homo sapiens cDNA	MR3-FN0004-090600-001-e04 FN0004 Homo sapiens cDNA	15 KDA SELENOPROTEIN PRECURSOR	FIBRINOGEN ALPHA/ALPHA-E CHAIN PRECURSOR	ol29c08.s1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1524878.3'	qp54e02.x1 NCI_CGAP_Co8 Hamo sapiens cDNA clone IMAGE:19288423'	qv23f08.x1 NCL_CGAP_Lym6 Homo sapiens cDNA clone IMAGE:19824353' similar to contains element	MIR repetitive element ;	za55e01.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:296472 3'	DYNEIN GAMMA CHAIN, FLAGELLAR OUTER ARM	Homo sapiens shox gene, alternatively spliced products, complete cds	Homo sapiens shox gene, alternatively spliced products, complete cds	zo17e08.r1 Stratagene colon (#937204) Homo sapiens cDNA clone IMAGE:587174 5'	zx04d11.s1 Soares_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:785493 3' similar to gs:D26129 RIBONUCLEASE PANCREATIC PRECURSOR (HUMAN);	Homo sapiens chromosome 21 segment HS21C003	RC4-NT0054-120500-012-b03 NT0054 Homo sapiens cDNA	Homo saplens ADP/ATP carrier protein (ANT-2) gene, complete cds	Homo sapiens p47-phox (NCF1) gene, complete cds	Homo sapiens p47-phox (NCF1) gene, complete cds	DNA-DIRECTED RNA POLYMERASE III LARGEST SUBUNIT	Homo sapiens glypican 3 (GPC3) gene, partial cds and flanking repeat regions	Homo sapiens glypican 3 (GPC3) gene, partial cds and flanking repeat regions	Homo sapiens chromosome 21 segment HS21C080	Hamo sapiens chromosome 21 segment HS210081
Exon Probes E	Top Hit Database Source	Ĭ	SWISSPROT D	П		Ţ		Ĭ			П	SWISSPROT 1		EST_HUMAN or	EST_HUMAN Q				ISSPROT .	H) TN		EST_HUMAN =	EST_HUMAN 9	Г	HUMAN								E L
Single	Top Hit Acession No.	.0E-06 AL163278.2			.0E-06 AF184614.1	.0E-08 U07561.1					.0E-06 BE834518.1			.0E-06 AA912623.1	.0E-06 AI347010.1		1	.0E-06 N74635.1				.0E-06 AA132611.1	.0E-06 AA449257.1	.0E-06 AL163203.2			4.1	.0E-06 AF184614.1	.0E-06 P27625	.0E-07 AF003529.1			9.0E-07 AL163281.2
	Most Similar (Top) Hit BLAST E Value	1.0E-06	1.0E-08 P27825	1.0E-08	1.0E-06	1.0E-08	1.0E-06	1.0E-06	1.0E-08	1.0E-06	1.0E-08	1.0E-06	1.0E-06 P02671	1.0E-06	1.0E-06		1.0E-06	1.0E-06	1.0E-06	1.0E-06	1.0E-06	1.0E-06	1.0E-06	1.0E-06	1.0E-08	1.0E-06	1.0E-06	1.0E-06	1.0E-06	9.0E-07	9.0E-07	9.0E-07	9.0E-07
	Expression Signal	1.12	1.54	8.38	8.38	14.7	0.90	0.98	4.64	1.08	1.08	1.13	5.96	99'0	1.21		1.23	96.0	0.5	3.34	3.34	4.36	3.84	1.61	6.24	7.83	1.67	1.67	1.38	2.01	2.01	0.57	2.85
	ORF SEQ ID NO:	26695		27186	27187	29488	30256	30257	30536	30563	30564		32356		33671		33879	34899	34850	35062	35063	35111								25518			36675
	Exon SEQ ID NO:	14164	14220	14619	14619	17045	1	17831				18294		20485	20757	l			21901		22100		22202	L	L	24356		14619	14220				23634
	Probe SEQ ID NO:	1571	1627	2037	2037	4459	5269	5269	5494	5518	5518	2995	6954	7943	8218		8425	9228	9301	9600	0096	9643	9703	10382	11502	12087	12195	12195	12603	383	383	8346	11126

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Table 4
Single Exon Probes Expressed in Fetal Liver

	י סיף את הפאניקאנא	qi82g07.x1 Soares_NhHMPu_S1 Homo sapiens cDNA clone IMAGE:1878876 3'	qi82g07.x1 Soares_NhHMPu_S1 Homo sapiens cDNA clone IMAGE:1878876 3'	POL POLYPROTEIN ICONTAINS: PROTEASE; REVERSE TRANSCRIPTASE; ENDONUCLEASE]	Homo sapiens UDP-glucuronosyltransferase gene, complete cds	EST05660 Fetal brain, Stratagene (cat#936206) Homo sapiens cDNA clone HFBEN89	Homo sapiens chromosome 21 segment HS21C080	Homo sapiens membrane interleukin 1 receptor accessory protein (IL1RAP) gene, exons 10 and 11	Homo saplens ATP-binding cassette, sub-family A (ABC1), member 8 (ABCA8), mRNA	Homo saplens ATP-binding cassette, sub-family A (ABC1), member 8 (ABCA8), mRNA	7/33g01x1 NCI_CGAP_CLL1 Home sapiens cDNA clone IMAGE:3296496 3' similar to TR.Q96897 Q96897 ENDOGENOUS RETROVIRUS-K, LTR US AND GAG GENE. ;	CM3-C70277-221099-024-e11 CT0277 Homo sapiens cDNA	Homo sapiens HLA class III region containing tenascin X (tenascin-X) gene, partial cds; cytochrome P450 21	hydroxylase (CYP21B), complement component C4 (C4B) G11, helicase (SKI2W), RD, complement factor B	(b), and compared compared (c) (c) genes.) HYPOTHETICAL 24.1 KD PROTEIN IN LEF4-P33 INTERGENIC REGION	7894f07.x1 NCI CGAP Co16 Homo sepiens cDNA clone IMAGE:3314149 3' similar to TR:075920 075920	4F5L.;	om87t05.y5 NCI_CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1554177 5'	CM4-NN1029-250300-121-h12 NN1029 Homo sapiens cDNA	wh64f10;x1 NC _CGAP_Kid11 Homo saplens cDNA clone IMAGE:2385547 3'	EST93815 Supt cells Homo sapiens cDNA 5' end	wh84f10.x1 NCL_CGAP_Kid11 Homo sepiens cDNA clone IMAGE:2385547.3'	Homo saplens NOD1 protein (NOD1) gene, exons 4 through 14 and complete cds	Mus musculus OG-2 homeodomain protein (OG-2) gene, partial cds	tg06b05.x1 NCI_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:2107953 3' similar to contains Alu recettive element contains element A3R recettiive element.	g08b05.x1 NCI_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:2107953 3' similar to contains Alu	repetitive element; contains element A3R repetitive element;	x831802.x1 NCI_CGAP_Br18 Homo sepiens cDNA clone IMAGE:2568362 3' similar to gb:X15341 CYTOCHROME C OXIDASE POLYPEPTIDE VIALIVER (HUMAN);	ADAM-TS 1 PRECURSOR (A DISINTEGRIN AND METALLOPROTEINASE WITH THROMBOSPONDIN MOTIFS 1) (ADAMTS-1) (ADAM-TS1)
Top Hit	Source	EST HUMAN A	EST_HUMAN ql	SWISSPROT PO	TN TN	EST HUMAN ES	NT H	Ĭ.			FST_HUMAN EN	EST_HUMAN C	Ĭ		SWISSPROT H	T						EST_HUMAN wh		M. IN	EST HUMAN re	Т	EST_HUMAN re	EST_HUMAN C)	
Top Hit Acession	oʻ Z	8.0E-07 AI288596.1	Γ					0E-07 AF167341.1	E005700 NT	6005700 NT	0E-07 BE676648.1	0E-07 AW85558.1			[2]				6.0E-07 AW 903222.1			5.0E-07 AI831893.1	1.1	.0E-07 U65067.1			0E-07 AI393981.1	.0E-07 AW070885.1	0E-07 Q9WUQ1
Most Similar (Top) Hit	BLAST E Value	8.0E-07	8.0E-07	8.0E-07	8.0E-07	8.0E-07	8.0E-07	7.0E-07	7.0E-07	7.0E-07	7.0E-07	6.05-07		L	6.0E-07 P41479		6.0E-07	6.0E-07	6.0E-07	5.0E-07	5.0E-07	5.0E-07	5.0E-07	5.0E-07	505-07		5.0E-07	5.0E-07	5.0E-07
Expression	Signal	5.02	5.02	7.49	9.51	8.73	7.99	1.14	69.0	0.69	1.59	2.58			1 78		1.94	1.83	2.85	1.19	2.21	0.64	1.32	1.13	1.56		1.58	16.07	0.82
ORF SEQ	:O NO:	28912	29913					27052	30841		36186	27096			1/0/7			37131					29775	31644	32281		32282	32776	
	S S S	17460	17460	18666	20486	23935	24106	14491	18336		23174	14540			16642			24087		12999	13700	15681	17332	18876	19484	L	19464	19912	20758
Probe	NO.	4885	4885	6047	7944	11488	11690	1906	5710	5710	10642	1956		7000	4044		9068	11625	11949	348	1095	3068	4751	6268	7124		7124	7386	8217

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		_	_	-	Τ-	_	_		_	_	Ψ-	_	_	_	•	_	_	_	_	_	_	_	_	_	_	_	-	_	_	т	_	
	Top Hit Descriptor	S-ANTIGEN PROTEIN PRECURSOR	CM-BT178-220499-014 BT178 Homo sapiens cDNA	LINE-1 REVERSE TRANSCRIPTASE HOMOLOG	COLLAGEN ALPHA 1(1) CHAIN PRECURSOR	Home sapiens Xq pseudoautesomal region; segment 1/2	QV0-CT0383-210400-204-b12 CT0383 Homo sapiens cDNA	ws84h05.x1 NCI_CGAP_Co3 Homo sapiens cDNA clone IMAGE:2504697 3'	Homo sapiens SPP2 gene for secreted phosphoprotein 24 precursor, exons 1-8	HISTONE DEACETYLASE 5 (HD5) (HISTONE DEACETYLASE MHDA1)	HISTONE DEACETYLASE 5 (HD5) (HISTONE DEACETYLASE MHDA1)	Homo sapiens chromosome 21 segment HS21C007	xy49g11.x1 NCI_CGAP_Lu34.1 Homo sapiens cDNA clone IMAGE:2856548.3	Homo sapiens chromosome 21 segment HS21C018	wi81b08.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2399703 3'	Wi81b08.x1 NCI_CGAP_Kid12 Homo saplens cDNA clone IMAGE:2399703 3'	PM1-BN0083-030300-003-e12 BN0083 Homo sapiens cDNA	Human microfibril-associated glycoprotein (MFAP2) gene, putative promoter region and atternatively spliced untranslated exons.	Homo saciens Xq pseudosutosomal region: segment 1/2	Human polymorphic microsatellite DNA	Human IgK subgroup I germline gene, exons 1 and 2, V-region 018 allele	ni56b09.s1 NCI_CGAP_Ov2 Home sapiens cDNA clone IMAGE:980825 similar to contains Alu repetitive	element; contains L1.t3 L1 repetitive element;	Human polymorphic microsatellite DNA	MR0-BN0115-020300-001-f11 BN0115 Homo sapiens cDNA	MR0-BN0115-020300-001-f11 BN0115 Homo sapiens cDNA	yd50f12.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:111695 5'	HYPOTHETICAL 63.8 KD PROTEIN IN GUT1-RIM1 INTERGENIC REGION PRECURSOR	OVOSTATIN PRECURSOR (OVOMACROGLOBULIN)	AV650201 GLC Homo sepiens cDNA done GLCCCD01 3'	we86b12.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2347967 3'	ye14h09.s1 Stratagene lung (#837210) Homo saplens cDNA clone IMAGE:807053' similar to similar to gb:M62982 ARACHIDONATE 12-LIPOXYGENASE (HUMAN)
2001	Top Hit Detabase Source	SWISSPROT	EST HUMAN	SWISSPROT	SWISSPROT	Z	EST_HUMAN	EST_HUMAN	N	SWISSPROT	SWISSPROT	Z	EST_HUMAN	N	EST HUMAN	EST_HUMAN	EST_HUMAN	F Z	L	Z	N		EST_HUMAN	NT	EST_HUMAN	EST_HUMAN	EST_HUMAN	SWISSPROT	SWISSPROT	EST_HUMAN	EST_HUMAN	EST_HUMAN
	Top Hit Acessian No.	5.0E-07 P09593	5.0E-07 A1908587.1	5.0E-07 P08547	5.0E-07 P11087	5.0E-07 AJ271735.1	5.0E-07 AW862537.1	4.0E-07 AW009602.1	1.0E-07 AJ272265.1	1.0E-07 Q9Z2V6	1.0E-07 Q9Z2V6	4.0E-07 AL163207.2	4.0E-07 AW419134.1	4.0E-07 AL163218.2	4.0E-07 A1765528.1	4.0E-07 AI765528.1	4.0E-07 BE001828.1	3 0F-07 [U19719 1	3.0E-07 AJ271735.1	3.0E-07 M99149.1	3.0E-07 M64857.1		3.0E-07 AA528763.1	3.0E-07 M99149.1	3.0E-07 BE005077.1	3.0E-07 BE005077.1	3.0E-07 T84704.1	1.0E-07 P38739	3.0E-07 P20740	3.0E-07 AV650201.1	3.0E-07 AI797236.1	3.0E-07 T57850.1
	Most Similar (Top) Hit BLAST E Value	5.0E-07	5.0E-07	5.0E-07	5.0E-07	5.0E-07	5.0E-07	4.0E-07	4.0E-07	4.0E-07	4.0E-07	4.0E-07	4.0E-07	4.0E-07	4.0E-07	4.0E-07	4.0E-07	3.0F-07	3.0E-07	3.0E-07	3.0E-07		3.0E-07	3.0E-07	3.0E-07	3.0E-07	3.0E-07	3.0E-07	3.0E-07	3.0E-07	3.0E-07	3.0E-07
	Expression Signal	1.06	4.48	1.58	4.94	2.43	2.85	1.94	0.98	1.35	1.35	0.65	5.37	0.5	4.05	4.05	2.08	4.51			1.95		3.87	1.72	6.56	6.56	0.79	2.03			0.71	1.81
	ORF SEQ ID NO:		_		20698			29129		26926	32698		34445	35715	l	36352		25591		26539				27471	27645	27646	28156			29862		30205
	SEQ ID		_	L	23843	23802	24889	16667	19761	19839		20405	21519			23338		13100		L_	14280		- 1			i			i		17453	17787
	Probe SEQ ID NO:	8427	10270	10542	11391	11452	12391	4071	7230	7311	7311	7863	8981	10228	10817	10817	11100	466	68	1417	1667		2090	2327	2508	2508	3069	3195	4788	4834	4878	5222

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Single Exon Probes Expressed in Fetal Liver

Probe SEQ (D NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acessian No.	Top Hit Database Source	Top Hit Descriptor
5222	18771	30206	18.1	3.0E-07	3.0E-07 T57850.1	EST_HUMAN	yc14h09.st Strategene lung (#937210) Homo sepiens cDNA clone IMAGE:80705 3' similar to similar to gb:M62982 ARACHIDONATE 12-LIPOXYGENASE (HUMAN)
5847	18471	31197	12.79		088807	SWISSPROT	PROTEIN-ARGININE DEIMINASE TYPE IV (PEPTIDYLARGININE DEIMINASE IV) (PAD-R4) (PEPTIDYLARGININE DEIMINASE TYPE ALPHA)
6128						SWISSPROT	WNT-14 PROTEIN PRECURSOR
6804	19395		5.41	3.0E-07	75.1	EST HUMAN	oc04c10.s1 NCI_CGAP_GCB1 Homo saplens cDNA clone IMAGE:1339890 3'
7519	20039	32908	3.22			EST_HUMAN	QV1-UM0036-200300-115-g02 UM0036 Homo sapiens cDNA
7850	20474		7			NAMI IL FOR	W28f11.x1 NCI_CCAP_OV35 Home saplens cDNA clone IMAGE:2261037 3' similar to contains Alu
11373	L		1.68	L	BE439409.1	EST HUMAN	HTM1-025F1 HTM1 Homo sapiens cDNA
12841	24718		6.74	L	3.0E-07 AJ132352.1	NT.	Rattus norvegicus mRNA for 45 kDa secretory protein, partial
31	12710	25168	3.36		AF262988.1	LN	Homo sapiens TRF2-interacting telomeric RAP1 protein (RAP1) mRNA, complete cds
165	12828				L77569.1	LN TN	Homo sapiens DiGeorge syndrome critical region, telomeric end
165	12828	25315		2.0E-07	L77569.1	FN	Homo sapiens DiGeorge syndrome critical region, telomeric end
194	12854	25338	,		2.0E-07 U38849.1	NT.	Fugu rubripes beta-cytoplasmic(vascular) actin gene, complete cds
778	13397	25898	2.58		AF003530.1	NT	Homo sapiens homeobox protein CDX4 (CDX4) gene, complete cds and flanking repeat regions
778	13397	25899		П	AF003530.1	IN	Homo sapiens homeobox protein CDX4 (CDX4) gene, complete cds and flanking repeat regions
791	13409		0.91	2.0E-07 P11369	P11369	SWISSPROT	RETROVIRUS-RELATED POL POLYPROTEIN (CONTAINS: REVERSE TRANSCRIPTASE; ENDONUCLEASE]
	<u> </u>						z/08b07.s1 Stratagene NT2 neuronal precursor 937230 Homo sapiens cDNA clone IMAGE:650869 3' similar
979	13591	26108	2.56	20	E-07 AA223260.1	EST_HUMAN	to gb:L31860 GLYCOPHORIN A PRECURSOR (HUMAN); contains Alu repetitive element;
G	40500	20700	9		L CLOSOT TO TO C	1000	yc15g04.s1 Strategene lung (#837210) Homo sapiens cDNA clone IMAGE:80790 3' similar to contains L1
300	ı.		0.00		10504£. I	TOUGO SIMIO	Interviolenting in the state of
1844	_	28774			2 0F-07 C09704	SWISSPROT	HYPOTHETICAL 72 S.KD PROTEIN C2F7 10 IN CHROMOSOME I
3679	16280				BF131397 1	EST HUMAN	601818916F1 NIH MGC 58 Homo sepiens cDNA clone IMAGE:4044891 5'
3751	16352	28820	22.38	L	2.0E-07 AF125348.1	N	Homo sapiens caveolin 1 (CAV1) gene, exon 3 and partial cds
5547	18179	30593			AW898066.1	EST_HUMAN	RC3-NN0066-260400-021-g11 NN0066 Homo sepiens cDNA
6978	Li				A1208715.1	EST_HUMAN	qg56d05.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1839177 3'
8405	20945		3.57	2.0E-07	AV729390.1	EST_HUMAN	AV728390 HTC Homo sepiens cDNA clone HTCAEG02 5'
8628	i	34082	1.1		2.0E-07 AA035198.1	EST HUMAN	zk27g09.s1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:471808 3'
9878	22175		2.27		AL163303.2	1	Homo sapiens chromosome 21 segment HS21C103
10168	1	35658			AW892507.1	EST_HUMAN	CM4-NN0003-280300-124-e06 NN0003 Homo sapiens cDNA

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Single Exon Probes Expressed in Fetal Liver	Top Hit Descriptor	COMPLEMENT FACTOR B PRECURSOR (C3/C5 CONVERTASE) (PROPERDIN FACTOR B) (GLYCINE-RICH BETA GLYCOPROTEIN) (GBG) (PBF2)	COMPLEMENT FACTOR B PRECURSOR (C3/C5 CONVERTASE) (PROPERDIN FACTOR B) (GLYCINE-RICH BETA CLYCOPROTEIN) (GBG) (PBF2)	PMD-HT0339-260100-006-H07 HT0339 Homo sapiens cDNA	zn85h11.x5 Shatagene lung carcinoma 937218 Homo sapiens cDNA clone IMAGE:565029 3' similar to contains THR.b2 THR repetitive element;	Homo saplens chromosome 21 segment HS21C082	Homo sapiens chromosome 21 segment HS21C013	Homo sapiens chromosome 21 segment HS21C013	RETROVIRUS-RELATED GAG POLYPROTEIN (VERSION 1)	GLYCOPROTEIN GPV	Homo sapiens chromosome 21 segment HS21C082	AV718862 GLC Homo sapiens cDNA clone GLCFNF04 5'	AV718662 GLC Homo sapiens cDNA clone GLCFNF04 5'	Homo sapiens chromosome Xq28 melanoma antigen famity A2a (MAGEA2A), melanoma antigen family A12	(MAGEA12), melanoma antigen family A2b (MAGEA2B), melanoma antigen family A3 (MAGEA3), caltractin (CALT), NAD/PH dehydrogenase-like profein (NSDHL), and Lix	743408 V NCI (COAD BIRES Home series (NNA close IMAGE: 2201330 ft)	1243406, yl NCI CGAP Bm52 Homo sapiens cDNA clone IMAGE:2291339 5	y43c07.s1 Scares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE.245484 3'	PM4-TN0024-030800-002-b05 TN0024 Homo sapiens cDNA	PM4-TN0024-030800-002-b05 TN0024 Homo sapiens cDNA	Homo saplens chromosome 21 segment HS21C081	ENTEROPEPTIDASE (ENTEROKINASE)	ENTEROPEPTIDASE (ENTEROXINASE)	zi51e10.s1 Sogres_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:434346 3'	ADAM-TS 8 PRECURSOR (A DISINTEGRIN AND METALLOPROTEINASE WITH THROMBOSPONDIN MOTIFS 8) (ADAMTS-8) (ADAM-TS8) (METH-2)	hu28h06.x1 NCI_CGAP_Mel15 Homo sapiens cDNA clone IMAGE:3171419 3' similar to contains MER18.t3	MER18 repetitive element;	602137714F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4274426 5	EST185054 Brain IV Homo sapiens cDNA	Hamo sapiens chromosome 21 segment HS21C082
Exon Probes E	Top Hit Database Source	SWISSPROT ((SWISSPROT ((Γ				SWISSPROT			EST_HUMAN A	I	<u> </u>	T LI MANN	Τ	Г	Г	L_HUMAN	П		П	EST_HUMAN 2			_	٦	LINWAN	I.
Single	Top Hit Acession No.	0E-07 P00751	0E-07 P00751	2.0E-07 BE153717.1	2.0E-07 AI732462.1	.0E-07 AL163282.2	.0E-07 AL163213.2	.0E-07 AL163213.2				.0E-07 AV718662.1	.0E-07 AV718662.1		0F-07 182671 2	OF 07 BE047974 4	0E-07 BE047871.1	.0E-07 N55081.1	.0E-07 BF375909.1	.0E-07 BF375909.1	.0E-07 AL163281.2	.0E-07 P97435	.0E-07 P97435	.0E-07 AA693576.1	0E-07 P57110		.0E-07 BE327843.1	.0E-07 BF674524.1	.0E-07 AA386311.1	0E-07/AL163282.2
	Most Similar (Top) Hit BLAST E Value	2.0E-07	2.0E-07	2.0E-07	2.0E-07	1.0E-07	1.0E-07	1.0E-07	1.0E-07	1.0E-07	1.0E-07	1.0E-07	1.0E-07		1.05.07	1 05 07	1.0E-07	1.0E-07	1.0E-07	1.0E-07	1.0E-07	1.0E-07	1.0E-07	1.0E-07	1.0E-07		1.0E-07	1.0E-07	1.0E-07	1.0E-07
	Expression Signal	0.75	0.75	2.57	3.56	1.17	76.0	26.0	0.93	2.94	1.22	2.75	2.75		1 57	7, 67	4.57	8.62	0.82	0.82	1.35	2.52	2.52	2.7	1.05		0.49	2.51	1.19	3.53
	ORF SEQ ID NO:	35868	35869				27157	27158	27565	28693		29413	29414		32002B	33340	32350	32890	33042		33068	33611		34347	34654				35334	
	Exan SEQ ID NO:	22877	22877		24890	13744	14595	14595		14162	U	16967	16967		10223	1	19527			1	L_	20698	20698	21422	21711	1	ŀ	٠ ا	22353	
	Probe SEQ ID NO:	10383	10383	11642	11734	1141	2013	2013	2424	2854	3807	4380	4380		6627	BOED	0569	7504	7844	7644	7669	8157	8157	8884	9194		9535	9849	9855	10362

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Probe SEQ ID (NO: 7730 9812	Exon SEQ (D NO: 20238 22310	ORF SEQ ID NO:	Expression Signal Signal A 17	Most Similar (Top) Hit BLAST E Value 3.0E-08	Similar AST E No, AST E NO	Top Hit Database Source EST_HUMAN NT	Top Hit Database Source Source Source Source Track Hit Descriptor Source Higghtog.x1 Soares, NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA done IMAGE:2126273 3' similar to EST_HUMAN TR:Q13537 Q13537 MER37 TRANSPOSABLE ELEMENT, COMPLETE CONSENSUS SEQUENCE. : Homo sapiens MHC class 1 region MHC class
11662	24087		38.65	1	3.0E-08 R18420.1	EST HUMAN	prepetitive etement; xr87f08,xf NCI_CGAP_Luz8 Homo sapiens cDNA clone IMAGE:2767139 3'
247	12907				2.0E-08 AA425598.1	T HUMAN	zw48f07.r1 Soares_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:773317 5' similar to contains Alu repetitive element, contains element MER15 repetitive element :
<u> </u>	1312			Ш	Ar198349.1 AW886438.1	EST_HUMAN	Ostuta yarus Usuti Lipusani (Jean Lymina), Ostuta yarus Usuti Lipusani (Jean Lymina), Ostuta yarus 10080-240200-001-908 OT0080 Home sapiens CONA
88 722	13312	25797	10.99		2.0E-08 AW886438.1 2.0E-08 BE280477.1	EST_HUMAN EST_HUMAN	MR00 T0080-240200-001-008 O 10080 Homo sapiens cUNA 601155321F1 NIH_MGC_21 Homo sapiens cDNA clone IMA GE:3138893 5
1387	1 (26508	2.09	LL	E-08 AL163247.2	NT EST HIMAN	Homo septens chromosome 21 segment HS21C047 R01570463F1 NIH MGC 21 Homo septens CDNA clone IMAGE:3845199 5'
1895	14480		4.65	200	2.0E-08 AW270271.1	EST_HUMAN	xp43f11.x1 NCI_CGAP_HN11 Hamo saplens cDNA clone IMAGE:2743149 3
2462	i	27597			AA731948.1	EST. HUMAN	mw64h01.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1251409.3 similar to contains L1.t3 L1 repetitive element ;
85 25 88 7	ľ				K00216.1	L	Sheep His-trna-GUG
3243	15855	28337	6.85		2.0E-08 042280	SWISSPROT	WN 1-14 PROTEIN PRECURSOR
3928	1				AW813620.1	EST_HUMAN	RC3-ST0197-161099-012-603 ST0197 Homo sapiens cDNA
4152	1	29198	10.57	Ц	U82668.1	N	Homo sapiens shox gene, alternatively spliced products, complete cds
4	17079		1.74	2.0	DE-08 AA459040.1	EST_HUMAN	ae28c07.rt NC_CGAP_GCB1 Homo septens cUNA clone IMAGE:814360 3 similar to contains LT.Z.L.1 repetitive element;
5092	17665		3.83	7	0E-08 AW572881.1	EST_HUMAN	he17h08.x2 NCI_CGAP_CML1 Hamo saplens cDNA clone IMAGE:2019327 3 similar to contains Alu repetitive element;
5817	١ '	31163	0.87	2	0E-08 AA813204.1	EST_HUMAN	ai80h11.s1 Soares, testis NHT Homo sepiens cDNA clone 13/7/189 3
5998	18618			2.	0E-08 AW088924.1	EST_HUMAN	xd32Cd4.x/ NCI_CGAP_OV23 Home sapiens cUNA clone invace:.295401.5 similar to contains intervious MER18 MER18 MER18 repotative element.
7946	20488	33398	-	2	0E-08 P10272	SWISSPROT	POLYPROTEIN ICONTAINS: PROTESSE; NEVENSE TRANSCRIPTASE; ENDONOCLEASE)
8054	1	Ш		2	0E-08 AA490121.1	EST HUMAN	ab02g06.s1 Stratagene retra 937.202 fromo saptens cuna cione inimace.coegra o
9014	21551		1.41	2	0E-08 AU139978.1	EST_HUMAN	AUTSSEZ PLACET Figure septems contraction to a s

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Single Exon Probes Expressed in Fetal Liver	Top Hit Descriptor Source	W72/02.r1 Soares fetal liver spleen 1NPLS Homo saplens cDNA clone IMAGE:248283 5' similar to contail?	yv72f02.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:248283 5' similar to contains EST_HUMAN LTR1.b3 LTR1 repetitive element;	4.2 NT Homo sepiens chromosome 21 segment HS21C084	Homo saptens cytochrome P450 polypeptide 43 (CYP3A43) gene, partial cds; eytochrome P450 polypeptide 7 (CYP3A7) genes, complete cds; and cytochrome P450 polypeptide 7 (CYP3A7) genes, complete cds; and cytochrome P450 partial cds	Z	B.1 EST_HUMAN PM2:HT0130-150999-001-f12 HT0130 Hamp sepiens cDNA	Z	SWISSPROT 62 KD RO PROTEIN (SJOGREN SYNDROME TYPE A ANTIGEN (SS-A))		Homo sapiens mannosidase, beta A, hysosomai (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3 NT (UBE2D3) genes, complete cds		NT	EST_HUMAN	2.1 EST_HUMAN PMZ-BT0546-210100-004-d02 BT0546 Homo septens dDNA	TRICARBOXYLATE TRANSPORT PROTEIN PRECURSOR (CITRATE TRANSPORT PROTEIN) (CTP) SWISSPROT (CITRATE TRANSPORT PROTEIN)	SWISSPROT BONE MORPHOGENETIC PROTEIN 1 PRECURSOR (BMP-1)	NT	NT	3.2 NT Homo septens chromosome 21 segment HS21C079	3.2 NT Homo sapiens chromosome 21 segment HS21C079	EST_HUMAN ye58a12.s1 Soares fetal liver spleen 1NFLS Homo saplens cDNA clone IMAGE:121918 3		TOT HUMAN	ESI_HUMAN	2.1 EST_HUMAN op74d08.s1 Soares_NFL_T_GBC_S1 Home saplens cDNA clone IMAGE:1582575 3'	LV	LN.
Single	Top Hit Acession No.			2.0E-08/AL163284.2 N	2.0E-08 AF280107.1 N		1.0E-08 BE141959.1 E	1.0E-08 AJ010770.1		1.0E-08 AL163302.2 N	1.0E-08 AF224668.1		-		1.0E-08 BE072572.1			3.1		9.0E-09 AL 163279.2 N	9.0E-09 AL163279.2 N		,	Ţ,		8.0E-09 AA938892.1 E		
}	Most Similar (Top) Hit BLASTE Value	2.0E-08 N78097.1	2.0E-08 N78097.1	2.0E-08	2.0E-08.A	1.0E-08 AF 125348.1	1.0E-08 B	1.0E-08	1.0E-08 P19474	1.0E-08	1.0E-08.A		1.0E-08	1.0E-08 AI015304.1	1.0E-08	1.0E-08 P79110	1.0E-08 P98083	1.0E-08[A	1.0E-08 X51755.1	9.0E-09	9.0E-09	9.0E-09 T97950.1	100	6.0E-09/AI183500.1	8.0E-09	8.0E-09 A	7.0E-09 D86842.1	7.0E-09 U50871.1
	Expression Signal	0.78	0.78	1.74	4.	0.99	2.74	4.23	1.14	0.55	0.85		0.86	1.84	0.75	1.18	9.0	3.79	2.27	3.83	3.83	0.49		20.0	89.7	2.77	1.87	F
ļ	ORF SEQ ID NO:	35904	35905			26947		31126			33525		٠		34508	35350							L.	32594				
	SEQ ID NO:	22907	22907	24293	25073	<u> </u>	14874	18410	20254		20612	1			21667	22373	22943	L	24353	16913	16913	22469	L	- 1	22464			16676
	Probe SEQ ID NO:	10413	10413	11982	12559	1812	2085	5785	7746	7978	8070		8070	8484	9132	9876	10449	11195	12081	4327	4327	9974		208	1842	8919	3667	4080

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														u	7.	13		مسا	۔ه		ų, d	1		40	m), i		جه سب
Top Hit Descriptor	745e10.x1 Soares_NSF_F8_9W_OT_PA_P.S1 Homo sapiens cDNA clone IMAGE:3524443 3' similar to contains MER29.b2 MER29 repetitive element ;	zr80c05,r1 Soeres_NhHMPu_S1 Homo sapiens cDNA clone IMAGE:681892 5' similar to contains L1.t2 L1 repetitive element ;	Human tysosomal membrane glycoprotain-2 (LAMP2) gene, 5' end and flanking region	601111173F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3351834 5	න්58e07.s1 Soares retina N2b4HR Homo sapiens cDNA clone IMAGE:381156 3' similar to contains L1.12 L1 renetitiva element∵	weSka12 st Sceres fetal liver spleen 1NFLS Home sapiens cDNA clone IMAGE:121918 3	DKFZp434C0514 r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434C0514 5'	PM1-HT0527-160200-001-h05 HT0527 Homo saplens cDNA	hg16/12.x1 NCI_CGAP_GC8 Homo sepiens cDNA done IMAGE:2945807 3' similar to gb:X53743 FIBULIN-1. ISOFORM C PRECURSOR (HUMAN);	hg16f12.x1 NCI_CGAP_GC6 Homo sapiens cDNA done IMAGE:2945807 3' similar to gb:X53743 FIBULIN-	1, ISOFORM C PRECURSOR (HUMAN);	xn85h08.x1 Sogres_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2701311 3'	MR3-HT0446-260300-201-h12 HT0446 Homo saplens cDNA	Homo sapiens fibroblast growth factor receptor 3 (achondroplasia, thanatophoric dwarfism) (FGFR3) mRNA	Homo sapiens testis-specific kinase substrate (TSKS) gene, complete cds	7I45e10.x1 Sogres_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3524443 3' similar to contains MER29.b2 MER29 repetitive element;	RC2-HT0252-120200-014-h10 HT0252 Homo sepiens cDNA	Homo sapiens chromosome 21 segment HS21C084	EST68746 Fetal lung II Homo sapiens cDNA 5' end	OLFACTORY RECEPTOR-LIKE PROTEIN CORS	PM2-UM0053-240300-005-c09 UM0053 Homo sapiens cDNA	Homo sapiens chromosome 21 segment HS21C082	Homo sapiens chromosome 21 segment HS21C085	Homo saplens hypothetical protein (AF038169), mRNA	EST58385 Infant brain Homo sapiens cDNA 5' end similar to similar to heat shock protein, 90 kDa	zw04c06.r1 Soares_NhHMPu_S1 Homo sapiens cDNA clone IMAGE:768298 5	yd11a07.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:668043
Top Hit Database Source	EST_HUMAN	EST_HUMAN	NT	EST_HUMAN	CCT HIMANI	EST HIMAN	EST HUMAN	EST HUMAN	EST HUMAN		EST_HUMAN	EST_HUMAN	EST_HUMAN	NT	IN	EST HUMAN	EST_HUMAN	LΝ	EST_HUMAN	SWISSPROT	EST_HUMAN	NT	ΝT	ΙN	EST_HUMAN	EST_HUMAN	EST_HUMAN
Top Hit Acession No.	09 BF108755.1	09 AA256200.1		-09 BE254850.1	A 0 5 6 5 6 4	DZOGO 4	09 Al 040439 1	09 BE169421.1	00 AW593471 1		-09 AW 593471.1	09 AW195784.1	-09 BE161653.1	4503710 NT	-09 AF200923.2	-09 BF108755.1	-09 BE149284.1	5.0E-09 AL 163284.2	-09 AA359454.1	-09 P37071	-09 AW 799667.1	-09 AL163282.2	-09 AL163285.2	9558718 NT	-09 AA350878.1	-09 AA495747.1	4.0E-09 T64942.1
Most Similar (Top) Hit BLAST E Value	7.0E-09	7.0E-09	7.0E-09	7.0E-09	7	7 OF 00 T07050 4	8 OF 09	8.0E-09	8.0F.00		6.0E-09	6.0E-09	8.0E-09	6.0E-09	6.0E-09	6.0E-09	5.0E-09	5.0E-09	5.0E-09	5.0E-09	5.0E-09	4.0E-09	4.0E-09	4.0E-09	4.0E-09	4.0E-09	4.0E-09
Expression Signel	0.5	0.78	2.89	1.3	8	3 2	1.0	45	Ŧ		-	12.11	0.81	2.37	3.89	1.68	3.95	0.93	2.29	0.59	2.27	1.69	1.99	1.81	4.54	0.72	0.62
ORF SEQ ID NO:			34844	35574				30128			30233			34578		36154	L			L	35493			26646	L	33237	
Exon SEQ ID NO:	20385	20533	21701	22581	L_		44774	L	1	1	17810	L	1_	21639	L	L	1	L				L	13811	ı	15040	L	Ш
Probe SEQ ID NO:	7843	7891	9184	10086		2570L	2600	5118	5748	250	5246	5582	8512	9103	10177	10610	1480	1893	6542	8521	10007	2	100	1518	2473	7788	8459

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Table 4
Single Exon Probes Expressed in Fetal Liver

Top Hit Descriptor	#34a12.r1 Soares, NhHMPu_S1 Homo sapiens cDNA clone IMACE:665278 5' similar to gb:L07807 DYNAMIN-1 (HUMAN);	hu09e09.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3166120 3' similar to contains MER18.t3 MER18 repetitive element ;	hu09e09.x1 NCI_CGAP_Lu24 Homo sepiens cDNA clone IMAGE:3166120 3' similar to contains MER18.t3 MER18 repetitive element;	PROTEIN MOV-10	hu09e09.x1 NCI_CGAP_Lu24 Homo sepiens cDNA clone IMAGE:3166120 3' similar to contains MER18.t3 MER18 resettiive element :	2/5/48/04.11 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:757422 5'	H.sapiens PADPRP-I gene for NAD(+) ADP-ribosythansferase	Homo sapiens eukaryotic initiation factor 4AI (EIF4A1) gene, partial cds	258.1 KDA PROTEIN C210RF5 (KIAA0833)	hx80a02.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3194090 3' similar to TR:055091 055091 IMPACT PROTEIN.;	Homo sapiens chromosome 21 segment HS21C047	7172c08.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sepiens cDNA clone IMAGE:3527030 3'	7172:08.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3527030 3'	H.sapiens PADPRP-I gene for NAD(+) ADP-ribosyltransferase	Homo sapiens chromosome 21 segment HS21C084	DKFZp761B1710_r1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp761B1710 5'	258.1 KDA PROTEIN C210RF5 (KIAA0933)	BRAIN-SPECIFIC ANGIOGENESIS INHIBITOR 2 PRECURSOR	qi07d09.x1 Soares_NhHMPu_S1 Homo sapiens cDNA clone IMAGE:1855793 3'	EST86142 Kidney IX Homo sapiens cDNA 5' and similar to EST containing L1 repeat	zx63h06.r1 Soares_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:796187 5' similar to contains	Alu repetitive element;	52d11 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA	Homo sapiens Xq pseudoautosomal region; segment 1/2	Homo sapiens serine palmitoy/ transferase, subunit II gene, complete cds; and unknown genes	H.sapiens PADPRP-I gene for NAD(+) ADP-ribosyltransferase	nc11c02.r1 NCI_CGAP_Pr1 Homo sapiens cDNA clone IMAGE:1007810 similar to contains Aiu repetitive element;
Top Hit Database Source	EST HUMAN	EST HUMAN		SWISSPROT	EST HUMAN	Г	LN	-	SWISSPROT	EST HUMAN	Г	EST HUMAN	EST_HUMAN		Į.	EST_HUMAN			EST_HUMAN				T_HUMAN			NT	EST_HUMAN
Top Hit Acession No.	E-09 AA195142.1	E-09 BE222239.1	E-09 BE222239.1	DE-09 P23249	E-09 BE222239.1	AA442272.1	3.0E-09 X16674.1	JE-09 AF175325.1	JE-09 Q9Y3R5	BE465780.1	AL163247.2	3.0E-09 BF109943.1	BF109943.1	X16674.1	AL163284.2	AL118573.1	Q9Y3R5					E-09 AA461430.1	W28834.1	AJ271735.1	JE-09 AF111168,2	2.0E-09 X16674.1	DE-09 AA226070.1
Most Similar (Top) Hit BLAST E Value	4.0E-09	3.0E-09	3.0E-09	3.0E-09	3.0E-09	3.0E-09	3.0E-09	3.0E-09	3.0E-09	3.0E-09	3.0E-09	3.0E-09	3.0E-09	2.0E-09	2.0E-09	2.0E-09	2.0E-09	2.0E-09	2.0E-09	2.0E-09		2.0E-09	2.0E-09	2.0E-09	2.0E-09	2.0E-09	
Expression Signal	1.73	6.83	0.95	122	1.05	3.13	3.54	5.18	1.52	1.29	1.98	3.87	3.87	1.01	6.02	10.31	2.79	4.13	0.94	0.74		8.48	0.68	1.72	1.72	27.08	2.25
ORF SEQ ID NO:		27530		27802					29639		L	36437	36438		26417		27507		29139			ì		34104			
Exon SEQ ID NO:	23510	i		15235		L	16763	17101	17193	20383	L	23420	23420	13461	13895	14291	14935	L	L			19996		21185		13461	25094
Probe SEQ ID NO:	10996	2390	2589	2677	3372	3423	4172	4517	4610	784	10146	10900	10900	845	1301	1698	2364	401	4083	6876		7474	7532	8646	11634	12238	12310

Page 211 of 526 Table 4 Single Exon Probes Expressed in Fetal Liver

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Chighe Lyches Lypressed in 1 oral Live	Top Hit Descriptor	2d79d03.s1 Soares_fetal_heart_NDHH19W Homo sapiens cDNA clone IMAGE:346853 3' similar to gb:L02932 PEROXISOME PROLIFERATOR ACTIVATED RECEPTOR ALPHA (HUMAN);	Homo sapiens CCAAT-box-binding transcription fector (CBF2) mRNA	Homo sapiens CCAAT-box-binding transcription fector (CBF2) mRNA	Homo sapiens basic transcription factor 2 p44 (bt/2p44) gene, partial cds, neuronal apoptosis inhibitory protein (naip) and survival motor neuron protein (sum) genes, complete cds	Homo sapiens nucleolar phosphoprotein B23 (NPM1) mRNA, complete cds	Homo sapiens nucleolar phosphopratein B23 (NPM1) mRNA, complete cds	601058602F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3445177 5'	2h35b03.s1 Soares_pinesi_gland_N3HPG Homo sapiens cDNA clone IMAGE:414029 3' similar to contains. Alu repetitive element;contains element;contains element;	Homo saplens chromosome 21 segment HS21C083	Human breakpoint cluster region (BCR) gene, complete cds	CIRCUMSPOROZOITE PROTEIN PRECURSOR (CS)	wd39b05.xt Soares_NFL_T_GBC_S1 Hamo sapiens cDNA clone IMAGE:2330481 3' similar to contains	MER25.t1 MER25 repetitive element ;	namo sapiens circinosome z i segment H3210083	Homo sapiens GTP binding protein 1 (GTPBP1), mRNA	Homo sapiens TESTIN 2 and TESTIN 3 genes, complete cds, alternatively spliced	MR0-SN0040-050500-002-c07 SN0040 Homo sapiens cDNA	we78h03.x1 Soares_Dieckgraefe_cdon_NHCD Homo sapiens cDNA clone IMAGE:2347253 3' similar to SW:RL29_HUMAN P47914 60S RIBOSOMAL PROTEIN L29 :contains element PTR5 repetitive element ;	146b09x1 Scares_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:2144537 3' similar to	IR:000372 000372 PUTATIVE P150.	Homo sapiens MCM4 (MCM4) and DNA-PKcs (PRKDC) genes, partial cds	QV1-BT0631-150200-071-f01 BT0631 Homo sapiens cDNA	EST89564 Small intestine i Homo sapiens cDNA 5' end	Homo sapiens lens major intrinsic protein (MIP) gene, complete cds	Homo sapiens TPA inducible protein (LOC51586), mRNA	Homo sapiens TPA inducible protein (LOC51586), mRNA	LYSP100 PROTEIN (LYMPHOID-RESTRICTED HOMOLOG OF SP100)	LINE-1 REVERSE TRANSCRIPTASE HOMOLOG	UNE-1 REVERSE TRANSCRIPTASE HOMOLOG
EAULT TODGS	Top Hit Database Source	EST_HUMAN	LX.	LZ.	۲N	N	LN	EST_HUMAN	EST_HUMAN	LN	TN	SWISSPROT		EST HUMAN	2	NT	IN	EST_HUMAN	EST_HUMAN	1	EST HUMAN	L	EST_HUMAN	EST_HUMAN	NT	L	NT	SWISSPROT	SWISSPROT	SWISSPROT
algi iilo	Top Hit Acession No.	E-09 W78152.1	5031624 NT	5031624 NT	J80017.1	.0E-09 M28699.1	0E-09 M28699.1	E-09 BE535440.1	E-09 AA719297.1	DE-09 AL163283.2	E-09 U07000.1	E-09 P26694		0E-09 A/688474.1	1,103,283.2	11418127 NT	E-09 AF280225.1	DE-10 AW867740.1	E-10 AI870071.1		DE-10 A)452982.1	DE-10 U63630.2	DE-10 BE080748.1	VA376832.1	8.0E-10 U36308.2	7706225 NT	7706225 NT	E-10 Q13342	0E-10 P08548	0E-10 P08547
	Most Similar (Top) Hit BLAST E Value	1.0E-09	1.0E-09	1.0E-09	1.0E-09	1.0E-09	1.05-09	1.0E-09	1.0E-09	1.0E-09	1.05-09	1.0E-09		1.0E-09.		1.0E-09	1.0E-09[/	9.0E-10	9.0E-10			8.0E-10	8.0E-10	8.0E-10	8.0E-10	7.0E-10	7.0E-10	0	7.0E-10	7.0E-10
	Expression Signal	1.14	2.3	2.3	1.74	3.98	3.98	0.77	5.48	0.87	1.46			0.87	/0.7	3.3	1.82	1.48	6.87		4.35	10.47	0.59	4.11	2.34	24.84	24.84	2.13	1.31	13
	ORF SEQ ID NO:		26260	28261	28003		28043					31671	L.	33794		30620		26471	27955		32410						25845			
	Exon SEO ID NO:	13842	13751	13751	15531	15568	15568	15888	17491		l	18901	l	Ţ	١		24944	13947	15479		L		15995	16865	22372			14256	1	15158
	Probe SEQ ID NO:	1032	1148	1148	2914	2922	2952	3073	4918	5694	98699	6293		8328	01201	12136	12593	1352	2860		6922	158	3386	4279	9875	730	730	1663	2067	2594

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ww97b03.x1 NCI_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2542081 3' similar to contains MER10.t1 wv97b03.x1 NCI_CGAP_Gas4 Home sapiens cDNA done IMAGE:2542061 3' similar to contains MER10.t1 repetitive element contains MER7.b1 MER7 repetitive element; Homo sapiens ASCL3 gene, CEGP1 gene, C11orf14 gene, C11orf15 gene, C11orf16 gene and C11orf17 HYPOTHETICAL 67.9 KD PROTEIN ZK688.8 IN CHROMOSOME III ag09f09.x1 Sogres_placenta_8tc9weeks_ZNbHP8tc9W Homo sapiens cDNA clone IMAGE:1759049 3 ho12902.x1 NCI_CGAP_Co14 Home sapiens cDNA clone IMAGE:3037202 3' similar to contains Alu 102407.x1 NCI_CGAP_Pr28 Homo sapiens cDNA clone INAGE:2095021 3: RC3-CT0254-031099-012-912 CT0254 Homo sapiens cDNA E-SELECTIN PRECURSOR (ENDOTHELIAL LEUKOCYTE ADHESION MOLECULE 1) (ELAM-1) (LEUKOCYTE-ENDOTHELIAL CELL ADHESION MOLECULE 2) (LECAM2) (CD62E) E-SELECTIN PRECURSOR (ENDOTHELIAL LEUKOCYTE ADHÉSION MOLECULE 1) (ELAM-1) (LEUKOCYTE-ENDOTHELIAL CELL ADHESION MOLECULE 2) (LECAM2) (CD62E) similar to containe LTR8.b2 LTR8 repetitive element infe4so1.s1 NCI_CGAP_Co3 Homo sapiens cDNA clone IMAGE:924648.3' hg5e903.x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2849844.3' similar to contains Alu DKFZp434N219_r1 434 (synonym: hles3) Homo sapiens cDNA clone DKFZp434N219 57 HYPOTHETICAL GENE 48 PROTEIN Homo sapiens MADS/MEF2-family transcription factor (MEF2C) mRNA, complete cds 601822184F1 NIH_MGC_75 Homo sapiens cDNA clone IMAGE:4042413 5 HYPOTHETICAL 67.9 KD PROTEIN ZK688.8 IN CHROMOSOME Top Hit Descriptor DNA-DIRECTED RNA POLYMERASE II LARGEST SUBUNIT EST384012 MAGE resequences, MAGL Homo sapiens cDNA L3-HT0619-110700-209-D12 HT0619 Homo sapiens cDNA ENTEROPEPTIDASE PRECURSOR (ENTEROKINASE) Homo sapiens WRN (WRN) gene, complete cds Homo sapiens presenilin-1 gene, exons 1 and 2 Homo sapiens presenilin-1 gene, exons 1 and 2 Single Exon Probes Expressed in Fetal Liver H.sapiens DHFR gene, exon 3 MER10 repetitive element; MER10 repetitive element; repetitive element gene EST HUMAN HUMAN EST_HUMAN SWISSPROT EST_HUMAN EST_HUMAN SWISSPROT HUMAN EST_HUMAN EST_HUMAN EST_HUMAN EST_HUMAN EST_HUMAN EST HUMAN EST HUMAN Top Hit Database Source SWISSPROT EST_HUMAN SWISSPROT SWISSPROT 눋 눋 눋 Top Hit Acession 7.0E-10 AF029701.2 7.0E-10 AF029701.2 7.0E-10 L08895.1 5.0E-10 AW028877.1 7.0E-10 AW778769.1 4.0E-10 AW594709.1 5.0E-10 AW028877.1 5.0E-10 AF181897.1 4.0E-10 AI221083.1 4.0E-10 AA515260.1 AW853719. 6.0E-10 P98073 6.0E-10 AW971923. 5.0E-10 BF 105159.1 6.0E-10 AJ400877.1 5.0E-10 AL046804.1 5.0E-10 Q01033 ģ 8.0E-10 A1424405.1 5.0E-10 P34678 5.0E-10 P34678 6.0E-10 P33730 6.0E-10 P33730 7.0E-10 / 6.0E-10 7.0E-10 7.0E-10 (Top) Hit BLAST E Most Simila 0.57 £. 1.68 2.84 1.54 3.68 189 9 5,2 1.05 1.05 <u>4</u>8. 8 1.02 1.17 9 4. 960 Expression Signal 28206 26072 34178 30018 30134 34932 25709 27189 31714 33364 33365 37030 ORF SEQ 27827 34177 28607 3501 ÖΝΩ 13559 20164 20458 20458 23959 15259 17575 17575 15738 18938 19970 21257 24136 13410 19889 12787 13235 14621 SEO ID 21257 21981 16127 1742 ĝ 7446 7916 11511 8718 8718 5002 5002 7363 9455 9455 2039 6332 946 2702 4847 792 116 SEQ ID 8 9552 ö

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Single Exon Probes Expressed in Fetal Liver	Expression (Top) Hit Top Hit Acession Signal BLAST E No. Source	27739 4.19 4.0E-10 AL163303.2 NT Homo saplens chromosome 21 segment HS21C103	22.35 4.0E-10.AF224669.1 NT	0.62 4.0E-10 AW 283243.1 EST_HUMAN	1.01 4.0E-10 AI287342.1 EST HUMAN	1.95 3.0E-10 N36113.1 EST_HUMAN	4.43 3.0E-10 AY005150.1 NT	NT	1.07 3.0E-10 AL 163203.2 NT	3.0E-10 N50109.1 EST_HUMAN	1.87 3.0E-10 P.20350 SWISSPROT		3.0E-10 AV743302.1 EST_HUMAN	2.3 3.0E-10 AV743302.1 EST_HUMAN	3.0E-10 H87208.1 EST_HUMAN	EST_HUMAN	1.61	N	EST_HUMAN	EST_HUMAN	EST_HUMAN	92.79 2.0E-10 P48988 SWISSPROT	92.79 2.0E-10 P48988 SWISSPROT	2.0E-10 U80017.1 INT		2.0E-10 Q28640 SWISSPROT		1.42 2.0E-10 AF280107.1 NT	32803 7.79 2.0E-10[BE791082.1 [EST_HUMAN 601586208F1 NIH_MGC_/ Home sapiens cuna cione image: 3840524.5
	ORF SEQ Express ID NO: Signs					26074		29867	29668			31877	33136	33137	34122	34442	34443				30911					_		31779	32803
	Exan SEQ ID NO:	15171	19759	L	L	<u>L</u>	1	L	L	L	1_	\mathbf{i}_{-}		L	 5 21204	9 21517	21517	4 21790	9 22853	5 22979	5 24568	8 12717	38 12717		Į	1 18592	l .	1	4 19939
	Probe SEQ ID NO:	2809	7228	10097	10342	848	1395	463;	4633	5848	8350	6492	773	7737	8665	8979	897	9284	1035	10485	12415	ြိ	E .	1942	Š	5971		6398	7414

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Offigia CAULITIODES EXPRESSED IT PERMICHASE	Top Hit Descriptor	POL POLYPROTEIN ICONTAINS: PROTEASE - REVERSE TRANSCRIPTASE - BIRONI ICI EASE LI	POL POLYPROTEIN CONTAINS: PROTEASE: REVERSE TRANSCRIPTASE RIBONLOL FASE HI	7078d08.x1 NCI_CGAP_Kid11 Hamo sapiens cDNA clone IMAGE:3642303 3' similar to contains L1.td L1 repetitive element:	MR0-SN0038-290300-001-f01 SN0038 Homo sepiens cDNA	AV652123 GLC Homo sapiens cDNA clone GLCCXA113'	QV0-CT0225-191199-058-608 CT0225 Homo sapiens cDNA	QV2-TT0003-161199-013-010 TT0003 Home sapiens cDNA	DKFZP434N1317 r1 434 (synonym: htes3) Homo sapiens cDNA clone DKF7n434N1317 4	DKFZp434N1317_r1 434 (symonym: htes3) Homo sapiens cDNA clone DKFZp434N1317 5'	Homo sapiens nuclear factor of kappa light polypeptide gene enhancer in B-cells 1 (NFKB1) gene, complete cds	Homo sapiens X28 region near ALD locus containing dual specificity phosphatase 9 (DUSP9), ribosomal protein L18a (RPL18a), Ca2+/Calmodulin-dependent protein kinase I (CAMKI), creatine transporter (CRTR),	CUM protein (CDM), adrendieukodystrophy protein >	Homo sapiens X28 region near ALD locus containing dual specificity phosphatase 9 (DUSP9), ribosomal protein L18a (RPL18a), Ca2+/Calmodulin-dependent protein kinase I (CAMKI), creatine transporter (CRTR), CDM protein (CDM), adrended kortostrochy protein >	Homo sapiens PCCX1 mRNA for protein containing CXXC domain 1 complete ad-	Human pregnancy-specific glycoprotein beta-1 (SP1) mRNA, last exon	we82/04.X1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone INAGE:2347615 3' similar to contains MER31.t1 MER31 repositive element:	18_644 Fetal brain library Homo sapiens cDNA	qm04e10.x1 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE.1880874 3' similar to contains L1.t1 L1 repetitive element :	2723008.11 Strategene neuroepithelium NT2RAMI 937234 Homo emiene chun altan CE. Exegus E.	oy85h03.x1 Scares fetal liver spleen 1NFLS S1 Homo saciens CDNA cione IMAGE 1675661 3	H.sapiens DMA, DMB, HLA-Z1, IPP2, LMP2, TAP1, LMP7, TAP2, DOB, DQB2 and RING8, 9, 13 and 14	11 2-HT0203-201000-018-08 HT0203 Home Conference Chaire	DXE21028-0108-010-00 PITOUS Indian sapiens con A	DIV. 1547 1725.7 1 St. (syronym: Hibr.) Homo sapiens CUNA clone DKF26547D225 5. DKF26547D225 11 S47 (syronym: Hibr.1) Homo sapiens cDNA clone DKF26547D225 5.	DKFZp547D225_r1 547 (synonym: hfbr1) Homo sapiens cDNA clone DKFZp547D225 5
Evol Flobes	Top Hit Database Source	SWISSPROT	SWISSPROT	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST_HUMAN	L	Ŀ	2	Ë	L	NT	EST HUMAN	EST HUMAN	EST_HUMAN	EST HUMAN	EST HUMAN	E-V	FST HIMAN	EST HUMAN	EST_HUMAN	EST_HUMAN
Più ID	Top Hit Acession No.	P26809	P26809	2.0E-10 BF434565.1	.0E-10 AW867767.1	.0E-10 AV652123.1	.0E-10 AW852001.1	.0E-10 AW832912.1	.0E-10 AL041685.1	.0E-10 AL041685.1	0E-10 AF213884.1	0E 40 152444 2	032111.2	0E-10 U52111.2	-	Π	.0E-10 AI797745.1	-	0E-10 Al268340.1	0E-10 AA081868.1		0F-10 X87944 1		T		0E-11 AL134395.1
	Most Similar (Top) Hit BLAST E Value	2.0E-10	2.0E-10 P28809	2.0E-10	1.0E-10	1.0E-10	1.0E-10	1.0E-10	1.0E-10	1.0E-10	1.0E-10	u U		1.0E-10	1.0E-10	1.0E-10	1.0E-10	1.0E-10	1.0E-10	1.0E-10	1.0E-10	1 OF 10		9.0E-11	9.0E-11	9.0E-11
	Expression Signel	0.54	0.54	0.85	2.28	2.41	1.78	0.73	0.62	0.89	6.83	۸ ۲۲	37.5	5.77	1.95	2.53	-	1.06	1.03	4.16	3.47	1.58	0.98	6.73	6.73	2.33
	ORF SEQ ID NO:	33407				26776		28634				20243	20273		29253			33637			36325		25425	27302	27303	28520
	Exon SEQ ID NO:	20498	20498	21742	14148	14242	15180	16152	16197	16197	16683	16796	3	16796	16803	16837	17904	20723	21128	22598	23316	18038	12939	14729	14729	16038
	Probe SEQ ID NO:	7956	7958	9226	1556	1650	2618	3548	3593	3911	4087	4207		4207	4214	4249	5343	8182	8289	10103	10793	11672	283	2152	2152	3430

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Top Hit Descriptor	DKFZp547D225_r1 547 (synonym: hfbr1) Homo sapiens cDNA clone DKFZp547D225 5'	ae78f01.s1 Stratagene schizo brain S11 Homo saplens cDNA clone IMAGE:970297 3'	RC6-BT0627-140200-011-E06 BT0627 Homo saplens cDNA	EST27872 Cerebellum II Homo sapiens cDNA 5' end	EST27872 Cerebellum II Homo sapiens cDNA 5' end	C16635 Clontech human acrta polyA+ mRNA (#6572) Homo sapiens cDNA clone GEN-508B08 5'	yn53f11.s1 Soares adult brain N2b5HB55Y Homo sapiens cDNA clone IMAGE:172173 3' similar to contains	L1 repetitive element;	tm54c09.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2161936 3'	yw46e06.s1 Weizmann Olfactory Epithellum Homo sapiens cDNA clone IMAGE:255298 3'	EST34392 Embryo, 6 week I Homo sapiens cDNA 5' end	Users Wicks A.	Hours septems were general protein Anase and partial ZNF 143 general zind inger transcription ractor	Hamo sapiens SNCA isoform (SNCA) gene, complete cds, alternatively spliced	RETROVIRUS-RELATED POL POLYPROTEIN (CONTAINS: REVERSE TRANSCRIPTASE;	ENDONUCLEASE	AV701656 ADB Homo saplens cDNA clone ADBABC09 5'	Human matrix Gla protein (MGP) gene, complete cds	Human matrix Gla protein (MGP) gene, complete cds	Homo saplens chromosome X region from filamin (FLN) gene to glucose-8-phosphata dehydrogenase	(GGPD) gene, complete cds's	LINE-1 REVERSE TRANSCRIPTASE HOMOLOG	AV727859 HTC Homo saplens cDNA clone HTCASC06 5	Homo sapiens chromosome 21 segment HS21C083	Homo sapiens chromosome 21 segment HS21C083	ALDEHYDE OXIDASE	Homo sapiens chromosome 21 segment HS21C013	Homo sapiens protocadherin beta 3 (PCDHB3), mRNA	zu01b12.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:730559 5'	601507531F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3908295 5	Homo sapiens chromosome 21 segment HS21C047	HUMSUPY069 Human brain cDNA Homo sapiens cDNA clone 069	PRE-MRNA SPLICING FACTOR RNA HELICASE PRP2
Top Hit Database Source	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN		EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN		Z	NT		SWISSPROT	EST_HUMAN	LN	TN		L	SWISSPROT	EST_HUMAN	FZ	FN	SWISSPROT	۲N	LN C	EST HUMAN	EST_HUMAN	FN	EST HUMAN	SWISSPROT
Top Hit Acession No.	9.0E-11 AL134395.1	9.0E-11 AA775985.1	9.0E-11 BE079780.1	9.0E-11 AA324960.1	AA324960.1	9.0E-11 C16635.1		8.0E-11 H19971.1	8.0E-11 A478617.1	8.0E-11 N23712.1	7.0E-11 AA330642.1	0.00000	1.0E-11 AJZ1 / 348.Z	7.0E-11 AF163864.1		P11369	7.0E-11 AV701656.1	6.0E-11 M55270.1	6.0E-11 MS5270.1		6.0E-11 L44140.1	P08547	AV727859.1	5.0E-11 AL163283.2	AL163283.2	P48034	5.0E-11 AL163213.2	11416799 NT	4.0E-11 AA436042.1	4.0E-11 BE885900.1	4.0E-11 AL163247.2	4.0E-11 D44666.1	P20095
Most Similar (Top) Hit BLAST E Value	9.0E-11	9.0E-11	9.0E-11	9.0E-11	9.0E-11	9.0E-11		8.0E-11	8.0E-11	8.0E-11	7.0E-11	1007	/ .DE-11	7.0E-11		7.0E-11 P11369	7.0E-11	6.0E-11	6.0E-11		6.0E-11	6.0E-11 P08547	6.0E-11	5.0E-11	5.0E-11	5.0E-11	5.0E-11	5.0E-11	4.0E-11	4.0E-11	4.0E-11	4.0E-11	4.0E-11 P20095
Expression Signal	2.33	0.69	3.77	86.0	0.98	3.52		9.38	89.0	5.2	2.94	70.0	D.84	2.61		1.1	1.52	5.57	5.67		1.03	3.29	3.25	6.0	1.29	1.04	3.02	12.3	1.41	8.36	1.17	0.93	3.5
ORF SEQ ID NO:	28521			35548						29165			1	33889					25567		32229				25147	1	32037	32931		27837	28093	29750	32005
Exon SEQ ID NO:	16038		١.		22553	24342	L.,	15764	16633	16711	14089		-1	20975		22624		13070	13070		19412	_	20846	- 1	12691		19235	1	14038	15368	15613		19189
Probe SEQ ID NO:	3430	4598	5783	10058	10058	12059		3150	4035	4117	1497	3230	açaç Caç	8435		10129	12206	437	437		6822	7680	8305	12	3411	4312	6639	7537	1446	2816	2887	4725	6602

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Single Exon Probes Expressed in Fetal Liver Page 216 of 526 Table 4

म्30c04.x1 Soares_testis_NHT Homo saplens cDNA clone IMAGE:1752102 3' similar to contains MER10.t3 qc51c10.x1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA_clone IMAGE:1713138 3' similar to gb:L02932 PEROXISOME PROLIFERATOR ACTIVATED RECEPTOR ALPHA (HUMAN);contains L1.11 Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3 ne83h05,11 NCI_CGAP_GC1 Homo sapiens cDNA clone IMAGE:797433 5' similar to SW:PR16_YEAST P15938 PRE-MRNA SPLICING FACTOR RNA HELICASE PRP16.; Homo sapiens FRA3B common fragile region, diadenosine triphosphate hydrolase (FHIT) gene, exon 5 RC3-BT0316-170200-014-e05 BT0316 Homo sapiens cDNA Gallus gallus tho-globin, beta-H globin, beta-A globin, epsilon-globin, and offactory receptor-like protein COR3'beta (COR3'beta) genes, complete cds
Gallus gallus tho-globin, beta-H globin, beta-A globin, epsilon-globin, and offactory receptor-like protein 18212.X1 NCI_CGAP_Bm23 Homo sapiens cDNA clone IMAGE:2105830 3' similar to WP:ZK353.1 CE00385; POLYPEPTIDE N.ACETYLGALACTOSAMINYLTRANSFERASE (PROTEIN-UDPACETYLGALACTOSAMINYLTRANSFERASE) (UDP-GALNAC:POLYPEPTIDE, NACETYLGALACTOSAMINYLTRANSFERASE) (GALNAC-11) Mus musculus expressed in non-metastatic cells 2, protein (NM29B) (Nme2), mRNA EST 180120 Liver, hepatocellular carcinome Homo sepiens cDNA 5' end yg43e12.r1 Soares infant brain 1NIB Homo sapiens cDNA clone IMAGE:35144 5' MER 10 repetitive element ; yg43e12.r1 Soares infant brain 1NIB Homo sapiens cDNA clone IMAGE:35144 5 tm54c09.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2161936 3 7j87603.x1 NCI_CGAP_GC8 Homo sapiens cDNA clone IMAGE:3442565 3* OLFACTORY RECEPTOR-LIKE PROTEIN COR8 L1 repetitive element;
RETROVIRUS-RELATED GAG POLYPROTEIN (VERSION 1) Homo sapiens SH3-domain binding protein 1 (SH3BP1), mRNA Top Hit Descriptor Homo sapiens chromosome 21 segment HS21C027 QV2-BT0256-261099-014-a01 BT0258 Homo sapiens cDNA QV2-PT0073-280300-109-h08 PT0073 Homo sapiens cDNA (UBE2D3) genes, complete cds RC1-HT0256-210100-013-f08 HT0256 Homo sapiens cDNA COR3'beta (COR3'beta) genes, complete cds EST_HUMAN SWISSPROT EST_HUMAN EST_HUMAN SWISSPROT EST_HUMAN NT EST_HUMAN EST_HUMAN EST_HUMAN EST_HUMAN EST HUMAN EST HUMAN EST_HUMAN EST_HUMAN EST_HUMAN SWISSPROT Top Hit Database Source Ę Ę 6679077 Top Hit Acession 4.0E-11 11545 3.0E-11 6679 3.0E-11 AA309248.1 4.0E-11 BE149425.1 2.0E-11 AA581028.1 2.0E-11 BF592945.1 2.0E-11 P37072 2.0E-11 AL163227.2 2.0E-11 BE062558.1 2.0E-11 AW877806. A1609753.1 2.0E-11 AF020503. 2.0E-11 BE065537. AI150502.1 2.0E-11 AI126371.1 2.0E-11 P10263 2.0E-11 AI478617.1 ģ R24807.1 2.0E-11 R24807.1 L17432.1 2.0E-11 L17432. 2.0E-11 Q10473 4.0E-11 2.0E-11 2.0E-11 2.0E-11 4.0E-11 (Top) Hit BLAST E 2.02 0.65 1.36 2 6.04 1.09 6.98 0.76 68 99.0 90. 4 5.04 5.04 6.04 5 Expression Signal 26342 31838 35045 30937 26666 26786 28323 28497 28780 26121 32632 ORF SEO 26781 3166 Ö 16018 16148 14247 14252 15842 15976 17123 19053 19775 20365 19934 21830 14130 16950 13607 13826 13826 14247 SEO ID Exox ÿ 7246 7823 9316 9580 1538 4363 3368 3409 354 4539 4711 5070 6284 1227 1659

1655 1655

995

7409

SEQ ID ÿ

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Siligle Exoli Flobes Explessed in Fetal Livel	Top Hit Acession Top Hit Detablese Top Hit Descriptor Source	Ł	213606 SWISSPROT OLFACTORY RECEPTOR 511 (OLFACTORY RECEPTOR-LIKE PROTEIN OLF1)	EST_HUMAN	W885874,1 EST_HUMAN RC4-070072-170400-013-c11 0T0072 Homo saplens cDNA		EST_HUMAN	EST_HUMAN	EST_HUMAN	.1 EST_HUMAN	NT	98547 SWISSPROT LINE-1 REVERSE TRANSCRIPTASE HOMOLOG	17986 NT	LN TN	Ľ	NT	NT	N	3E04315.1 EST_HUMAN CM0-BN0105-170300-292-d12 BN0105 Homo saplens cDNA		NT	7957d01.x1 NCI_CGAP_Pr28 Homo sapiens cDNA clone IMAGE:3849945 3' similar to contains MER10.b3 ECT_HIMAN_MER10 reveilible alement	35546 NT	13174.1 EST_HUMAN 1973408.r1 Sceres Infant brain 1NIB Homo sapiens cDNA clone IMAGE:28166 5	EST_HUMAN	EST_HUMAN	EST_HUMAN	SWISSPROT	NT	NT	EST_HUMAN	Ŋţ	106904 SWISSPROT 34 KD SPICULE MATRIX PROTEIN PRECURSOR (LSM34)
Siligle Exoll Piopes Ext		Ł	SWISSPROT	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	.1 EST_HUMAN	NT	SWISSPROT	17986 NT	LN TN	Ľ	NT	NT	N	EST_HUMAN	TN	NT	NAM:	35546 NT	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	SWISSPROT	NT	NT	EST_HUMAN	Ŋţ	SWISSPROT
	Most Similar (Top) Hit BLAST E Value	2.0E-11 AF0293	2.0E-11 Q1360	2.0E-11 AW885874.1	2.0E-11 AW88	2.0E-11 AA035369.1	2.0E-11 AA035369.1	2.0E-11 AA704195.1	2.0E-11 AW842143.1	2.0E-11 BF377859.1	2.0E-11 D25217.2	2.0E-11 P08547	2.0E-11	1.0E-11 AJ131016.1	1.0E-11 AL163209.2	1.0E-11 AL163279.2	1.0E-11 AF119914.1	1.0E-11 AF000573.1	1.0E-11 BE004315.1	1.0E-11 AL 163285.2	1.0E-11 AL163247.2	1 0E-11 BE222846 1	1.0E-11	1.0E-11/R13174.1	1.0E-11 BF365119.1	1.0E-11 BF365119.1	1.0E-11 BF680078.1	9.0E-12 P20742	9.0E-12 AL 163300.2	9.0E-12 AL163300.2	8.0E-12 BE074720.1	8.0E-12 AJ271736.1	7.0E-12 Q05904
	Expression (Signal E	1.27	4.6	0.79	0.79	2.41	2.41	2.8	2.49	2.25	2.03	5.24	3.57	2.83	0.84	2.96	1.66	2.61	0.83	26.0	15.03	8	3.16	4.69	1.38	1.38	2.46	0.67	5.63	5.63	-	4.51	1.68
	ORF SEQ ID NO:		35671	35699	35900	36538	36539			31043				25812	25939	26372		27317	28630		30581	31757	33596	33979	34440	34441	38721	28075	35184	35185			29796
	Exon SEQ (D NQ:	21685	22679	22903	1	1	1		24200	24218	24388	24492	24707	13325	13434	13856	14138	14748	16150	17480	18167	18817	28884	21058	21518	21518	23674	15595	22211	22211	21787	24249	17347
	Probe SEQ ID NO:	9150	10184	10409	10409	10892	10992	11805	11836	11860	12135	12283	12629	704	816	1259	1546	2171	3546	4905	5535	5007	8143	8517	8978	8208	11167	2979	8713	9713	9261	11911	4766

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Top Hit Descriptor	zi23g01.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:451152 3'	AV730554 HTF Homo sapiens cDNA clone HTFAW F06 5'	nz88f11.s1 NCL_CGAP_GCB1 Homo saplens cDNA clone IMAGE:1302573.3' similar to contains Alu	repentive element;	Morone saxatilis myosin heavy chain FM3A (FM3A) mRNA, complete cds	od10g11.s1 NCI_CGAP_GCB1 Homo saplens cDNA clone IMAGE:1367588 similar to contains MER29.t2 MER29 repetitive element :	EST04462 Fetal brain, Stratagene (cat#936206) Homo sapiens cDNA clone HFBDV33	#42b05.y1 NCL CGAP_Brn52 Homo sapiens cDNA clone IMAGE:2291217 5	Homo sapiens Xq pseudoautosomal region; segment 2/2	Homo sapiens chromosome 21 segment HS21C078	Homo sapiens chromosome 21 segment HS21C078	EST386850 MAGE resequences, MAGN Homo saplens cDNA	DKFZp434B1615_s1 434 (synonym: htss3) Homo sapiens cDNA clone DKFZp434B1615 3'	DKFZp434B1615_s1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434B1615 3'	201g12.s1 Soares_fetal_heart_NbHH19W Homo sapiens cDNA clone IMAGE:375718 3' similar to contains	L1.t3 L1 repetitive element;	RC1-OT0086-220300-011-b07 OT0088 Homo sapiens cDNA	DKFZp434J0426_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434J0426 5	Homo sapiens Xq pseudoautosomal region; segment 1/2	OLFACTORY RECÉPTOR 102 (OLFACTORY RECEPTOR-LIKE PROTEIN HGMP07E) (OLFACTORY RECEPTOR 17-4) (OLFACTORY	Homo sapiens chromosome 21 segment HS21C103	Homo sapiens chromosome 21 segment HS21C102	Rattus norvegicus Deleted in colcorectal cancer (rat homolog) (Dcc), mRNA	274g11.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:460676 3'	274g11.s1 Soares, fetal liver, spleen 1NFLS S1 Homo sapiens cDNA clone INAGE:460676 3	bc26h05.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2270745 3' similar to TR:Q13539 Q13539	MARINER I KANSPOSASE.	nad21b03.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3366077 3' similar to contains MER7.b2 MER7 repetitive element;	Homo sapiens S164 gene, partial cds; PS1 and hypothetical protein genes, complete cds; and S171 gene, partial cds	Bos teurus Mtch2 mRNA for mitochandrial carrier hamolog 2, complete cds
Top Hit Database Source	EST_HUMAN 2	EST_HUMAN A		HOMAN	NT.	O NAMUH TSE	T	Г	Г	TN	Į.	EST_HUMAN E	EST HUMAN	EST_HUMAN [T_HUMAN	12	TORGODINO	Т			Г	EST HUMAN		EST_HUMAN	EST_HUMAN	Į.	
Top Hit Acession No.	7.0E-12 AA704735.1				6.0E-12 AF003249.1	6 DE-12 AA847898 1	106573.1	5.0E-12 BE047779.1		П		4W974760.1	AL040739.1	5.0E-12 AL040739.1		5.0E-12 AA033745.1	5.0E-12 AW887037.1	E-12 AL079581.1	5.0E-12 AJ271735.1	23,408.2	5.0E-12/AL163303.2	5.0E-12 AL163302.2	B978754 NT	4.0E-12 AA700326.1	4.0E-12 AA700326.1		4.0E-12 AI689984.1	4.0E-12 BF445140.1	AF109907.1	4.0E-12 AB042815.1
Most Similar (Top) Hit BLAST E Value	7.0E-12	6.0E-12	20.0	6.0E-12	6.0E-12 /	6.0F-12	5.0E-12 T06573.1	5.0E-12	5.0E-12	5.0E-12	5.0E-12	5.0E-12/	5.0E-12	5.0E-12		5.0E-12	5.0E-12	5.0E-12	5.0E-12	6 0E-12 034082	5.0E-12/	5.0E-12	5.0E-12	4.0E-12	4.0E-12		4.0E-12	4.0E-12	4.0E-12	4.0E-12
Expression Signal	12.18	0.72	10 47	10.25	0.92	60	2.85	1.19	69.9	6.59	5.59	9.62	1.12	1.14		1.43	0.7	0.56	2.42	70	4.17	0.67	2.12	3.53	4.43		0.82	0.7	2.2	1.2
ORF SEQ ID NO:	36815	-	-	29466	34380		26198	28526	28855	31550	31551		32264			33629			34504	SOUR		35748			25409		29752			34075
Exen SEQ ID NO:	1	1	١.	ì	21464	21818	13686	16045		18784	18784	19214	19448	19448		20712	21141	21463	21574	94859	1_	1_	22955	12923	12923	L	17308	20128	1	21160
Probe SEQ ID NO:	11228	3601		4440	8926	3395	1081	3437	3790	6172	6172	6617	2089	7108		8171	8602	8925	9037	0344	10176	10266	10461	265	266		4727	7615	8185	8621

WO 01/57277

PCT/US01/00669

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_		_							-	_	_	_		_	_	_	_	_	_	_		_	_		_		_		_	_	_
	Top Hit Descriptor	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22, segment 3/3	Homo sapiens Bruton's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein [// 44] and FTP3 (FTP3) renes complete cds	Indiador vi Sorres NEL T GRC St Home segiens CONA clone IMAGE 2009377 3' similar to TR-014517	014517 SMRP.	hd13d01x1 Soares_NFL_T_GBC_S1 Homo saplens cDNA clone IMAGE:2909377 3' similar to TR:O14517 O14517 SMRP	Homo sapiens serine celmitor/ transferase, subunit II gene, complete cds; and unknown genes	SERINE PROTEASE HEPSIN	SERINE PROTEASE HEPSIN	Human prostate specific antigen gene, 5' flanking region	Human prostate specific antigen gene, 5' flanking region	IL5-UM0071-120400-065-a05 UM0071 Homo sepiens cDNA	Mus musculus keratin-associated protein 6.2 (Krtap6-2), mRNA	Rat U3A small nuclear RNA	Rat U3A small nuclear RNA	CM0-BT0281-031199-087-s03 BT0281 Hamo sapiens cDNA	EST383946 MAGE resequences, MAGL Homo saplens cDNA	EST06060 Infant Brain, Bento Soares Homo sapiens cDNA clone HIBBA13 5' end	MR0-HT0559-200400-015-e08 HT0559 Homo sapiens cDNA	Homo sapiens Ac-like transposable element (ALTE), mRNA	AV683827 GKC Hamo sapiens cDNA clane GKCFZB045'	Hamo sapiens putative BPES syndrome breakpoint region protein gene, complete cds	MR3-HT0487-150200-113-g01 HT0487 Homo sapiens cDNA	qq0702.x1 Soeres_NhHMPu_S1 Homo septens cDNA clone IMAGE:1931835 3' similær to TR:Q13538 Q13538 ORF2: FUNCTION UNKNOWN. ;	Homo saplens chromosome 21 segment HS21 C083	hh90a09.x1 NCI_CGAP_GU1 Homo sapiens cDNA clone IMAGE:2970040 3' similar to contains MER18.t1	MICHOE OPERATION CONTROLLS	With INCL. COAP OLY notine septents county date invavor. 24-59-495 5 similar to contains L 1.55 L 1 repolitive element;	Homo sapiens testis-specific Testis Transcript Y 2 (TTY2) mRNA, partial cds	Homo sapiens testis-specific Testis Transcript Y 2 (TTY2) mRNA, partial cds	AU132248 NT2RP3 Homo sapiens cDNA clone NT2RP3004070 5
	Top Hit Database Source	LN	5		EST_HUMAN	NAME OF PORT		SWISSPROT	SWISSPROT	N	Z	EST_HUMAN	L'N	LΝ	L	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	NT	EST HUMAN	NT	EST_HUMAN	EST HUMAN	N	HOU	NAMOR TOTAL	EST_HUMAN	Į.	TN	EST_HUMAN
	Top Hit Acession No.	0E-12 AJ229043.1	0E-12 178027 1		0E-12 AW 341683.1	00 12 018(244892 4	0E-12 AVI 341063.1	035453			ı	AW802131.1	6754495 NT	J01884.1	J01884.1	BE063509.1	AW971857.1	T08169.1	BE173035,1	2.0E-12 11422229 NT	AV693827.1	AF196864.1	BE165980.1	Al334130.1	2.0E-12 AL163283.2	A 14000000	.UE-12/AW02/0/4.1	.0E-12 AI871726.1	.0E-12 AF000991.1	.0E-12 AF000991.1	.0E-12]AU132248.1
	Most Similar (Top) Hit BLAST E Value	4.0E-12	4 0E-12		3.0E-12	205 12	3.0E-12	3 0E-12	3.0E-12 035453	3.0E-12	3.0E-12	2.0E-12	2.0E-12	2.0E-12	2.0E-12	2.0E-12	2.0E-12	2,0E-12	2.0E-12	2.0E-12	2.0E-12	2.0E-12	2.0E-12	2.0E-12	2,0E-12	90.	1.05-12	1.0E-12	1.0E-12	1.0E-12	1.0E-12
	Expression Signal	4.25	1 84	2	2.73	0.7.0	1 18	0.52	0.56	3.28	3.28	1.05	19.0	8.0	6.0	2.58	1.54	2.97	1.21	2.38	9.0	2.18	11.42	69.0	2.46	6	2.78	1.53	1.33	1.33	38.65
	ORF SEQ ID NO:	36501			25744	26746						26820												35898			79707		28191	<u>'</u>	
	Exen SEQ ID NO:	23476	24418	\perp	13267	19007			1		i	14285	16118	16781	16781	17096	19200	19758	19908	20168		21954	22393	22902	L	<u></u>	12/96	14613	15721		1
	Probe SEQ ID NO:	10961	04707	200	944	Š	28.5	8316	9035	10535	10535	1693	3513	4192	4182	4512	6993	7227	7382	7656	7894	9232	9686	10408	11820		128	2031	3108	3106	3943

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					aifilio	EXOII FIODES	Single Exon Probes Expressed in Felai Liver
Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
3943	16541	29008	38.65		.0E-12 AU132248.1	EST HUMAN	AU132248 NT2RP3 Homo sapiens cDNA clone NT2RP3004070 5'
6121	18736		1.85	1.0E-12	.0E-12 U82828.1	LΝ	Homo sapiens ataxia telangiectasia (ATM) gene, complete cds
6182	18802		1.95		.0E-12 Q9Y2G7	SWISSPROT	HYPOTHETICAL ZINC FINGER PROTEIN KIAA0961
6653	19249	32051	0.7	-	0E-12 AF229843.1	TN	Mus musculus WNT-2 gene, partial cds, putative ankyrin-related protein and cystic fibrosis transmembrane conductance regulator (CFTR) genes, section 1 of 2 of the complete cds; and unknown gene
7170	ı		1.74			LN	Homo sapians putative BPES syndrome breakpoint region protein gene, complete cds
7204	19735	32587	9.7	-	0E-12 A1248533.1	EST_HUMAN	qh68a04.x1 Soares, fetal liver, splean, 1NFLS, S1 Homo sapiens cDNA clone IMAGE:1849614.3' similar to gb:M19503 LINE-1 REVERSE TRANSCRIPTASE HOMOLOG (HUMAN);contains MER10.t1 MER10 repetitive element;
	1						qh86a04.x1 Soares_fetal_liver_splean_1NFLS_S1 Homo sapiens cDNA clone IMAGE:1849614.3' similar to gb:M19503 LINE-1 REVERSE TRANSCRIPTASE HOMOLOG (HUMAN);contains MER10.t1 MER10
7204	19735	32588	9.7	1	.0E-12 AI248533.1	EST_HUMAN	repetitive element;
8428	20966	33880	0.54		.0E-12 U66059.1	_Z	Human germline T-cell receptor befa chain Dopamine-beta-hydroxylase-like, TRY1, TRY2, TRY3, TCRBV27S1P, TCRBV22S1A2N1T, TCRBV9S1A1T, TCRBV7S1A1N2T, TCRBV5S1A1T, TCRBV13S3, TCRBV6S7P, TCRBV7S2A1N4T, TCRBV13S2A1T, TCRBV9S2A2PT, TCRBV7S2A1N4T, TCRBV13S9/13S>
883	١.			ľ	.0E-12 AA782323.1	EST HUMAN	ac26d05.s1 Stratagene ovary (#937217) Homo saplens cDNA clone IMAGE:857577 3'
11723	24130	37154	4.65		.0E-12 AW962164.1	EST_HUMAN	EST374237 MAGE resequences, MAGG Homo sapiens cDNA
11941	24273		1.6	,	.0E-12 AI738592.1	EST HUMAN	wi33h08.x1 NCI_CGAP_Co16 Homo sapiens cDNA clone IMAGE:2392095 3'
12097	24990		2.72	-	.0E-12 AL163268.2	L	Homo sepiens chromosome 21 segment HS21C068
12424	24609		2.02		.0E-12 AF224669.1	FZ	Homo sapiens mannosidase, beta A. Iysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3 (UBE2D3) genes, complete cds
4019	16617	29092	0.91	9.0E-13	9.0E-13 AB028900.1	LN	Homo sapiens CST gene for cerebroside sulfotransferase, exon 1, 2, 3, 4, 5
9519	22019		3.1	9.0E-13	9.0E-13 N69653.1	EST_HUMAN	za28b06.s1 Scares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:293651 3'
746	13366				8.0E-13 U29185.1	LN	Homo sapiens prion protein (PrP) gane, complete cds
746	13368	25861	4.58	8	.0E-13 U29185.1	LN	Homo sapiens prion protein (PrP) gene, complete cds
1878	14464	27021	3.95		8.0E-13 U80017.1	NT	Homo sapiens basic transcription factor 2 p44 (btf2p44) gene, partial cds, neuronal apoptosis inhibitory protein (natp) and sunvival motor neuron protein (smn) genes, complete cds
8056	20598	33505	99.0		8.0E-13 AI884398.1	EST_HUMAN	wm31h09.x1 NCI_CGAP_Ut4 Homo sapiens cDNA clone IMAGE:2437601 3'
8028			0.68		8.0E-13 AI884398.1	EST_HUMAN	wm31h09.x1 NCI_CGAP_Ut4 Hamo sapiens cDNA clone IMAGE:2437601 3'
10051	22546		2.58		8.0E-13 U78027.1	FX	Homo sapiens Bruton's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal prolein (L44L) and FTP3 (FTP3) genes, complete cds

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Probe							
SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
11609	24052	37117		8.0E-13	8.0E-13 U66060.1	Ŀ	Human germiine T-ceil receptor beta chain TCRBV13S1, TCRBV6S8AZT, TCRBV5S8A3N2T, TCRBV13S6AZT, TCRBV6S9P, TCRBV5S3AZT, TCRBV13S8P, TCRBV6S3A1N1T, TCRBV5S2, TCRBV6S6AZT, TCRBV5S7P, TCRBV13S4, TCRBV6SZA1N1T, TCRBV5S4A2T, TCRBV6S4A1, TCRBV23S1AZT, TCRBV12>
8176	20717		9.0	7.0E-13	7.0E-13 Q95155	SWISSPROT	OLFACTORY RECEPTOR-LIKE PROTEIN OLF2
12212	24435		37.61	7.0E-13	7.0E-13 BE778223.1	EST_HUMAN	801463285F1 NIH_MGC_67 Hamo saplens cDNA clone IMAGE:3866813 5
							POLYPEPTIDE N-ACETYLGALACTOSAMINYLTRANSFERASE (PROTEIN-UDP ACETYLGALACTOSAMINY TRANSFERASE) (LIDP.GALNAC-POLYPEPTIDE N.
12448	24583		1.71	7.0E-13	7.0E-13 Q10473	SWISSPROT	ACETYLGALACTOSAMINYLTRANSFERASE) (GALNAC-T1)
2149	14728	27299	6.02	6.0E-13	7.2	TN	Homo sapiens chromosome 21 segment HS21C007
3364	15972		0.78	5.0E-13	5.0E-13 R78338.1	EST_HUMAN	y82f04.r1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:145759 5'
2777	2001		70 7	C 05 40	2 OF 40 AA 40 TO 4	TAVE IN	277a12.s1 Sogres_tests_NHT Home sapiens cDNA clone IMAGE:728350 3' similar to contains Alu
8059	L	32350		5.0E-13.744537	D00003	TOUR SERVICE	CAP II INCTION RETALL DROTTEIN (CONNEXIN 30) (CX30)
10739	1			5.0E-13 P07313	P07313	SWISSPROT	MYOSIN LIGHT CHAIN KINASE, SKELETAL MUSCLE (MLCK)
1908	L			4.0E-13	4.0E-13 AW378614.1	EST HUMAN	PM2-HT0224-221099-001-e11 HT0224 Homo sapiens cDNA
2500	15064		1.71	4.0E-13	4.0E-13 AF003529.1	LN	Homo saplens glypican 3 (GPC3) gene, partial cds and flanking repeat regions
4858	17436		1.03	4.0E-13	4.0E-13 AA454054.1	EST_HUMAN	2x48d07.r1 Soares_tests_NHT Homo sapiens cDNA clone IMAGE: 795469 5
5774	18399	31113	5.09	4.0E-13	4.0E-13 BE169131.1	EST_HUMAN	PM3-HT0520-230200-002-c08 HT0520 Homo sapiens cDNA
7257	19785	32641	1.07	4.0E-13	4.0E-13 AB037750.1	NT	Homo sapiens mRNA for KIAA1329 protein, partial cds
7607	20120	32997	0.81	4.0E-13	4.0E-13 AA431529.1	EST_HUMAN	zw76g12.r1 Sceres_testis_NHT Homo sapiens cDNA clone IMAGE:782182 5' similar to TR:G452763 G452763 COR1 MRNA.;
7705	20214		28	4 0F-13	4 0E-13 N44291 1	EST HUMAN	yy33g05.r1 Soares melanocyte 2NbHM Homo sapiens cDNA clone IMAGE:273080 5' similar to PIR:A32895 A32895 i complex sterility protein - mouse
8775	1_	34236			4.0E-13 AL043810.1	EST HUMAN	DKFZp434A0128_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434A0128 5
	ĺ.						qn32d05.x1 NCI_CGAP_Kid5 Homo sepiens cDNA clone IMAGE:1899945 3' similar to contains Alu
9833		35403	4.28	4.0E-13	4.0E-13 AI289831.1	EST_HUMAN	repatitive element;
11048	23559			4.0E-13	4.0E-13 AA435819.1	EST_HUMAN	zi78g10.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:728514 3'
11046			16.1	4.0E-13	:-13 AA435819.1	EST_HUMAN	zi78g10.s1 Soares_testis_NHT Homo sapiens cDNA clone IMA GE:728514 3'
192	12852		4.5		3.0E-13 AF003528.1	NT	Homo sapiens X-linked anhidroitic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
898	13512		4.67	3.0E-13	3.0E-13 AA430310.1	EST_HUMAN	zw68g08.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:781406 5'
2408	íi	27550		3.0E-13		NT	Homo sapiens Xq pseudoautosomal region; segment 2/2
2519	15083		8.72	3.0E-13	3.0E-13 AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010

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Single Chair Flores Chiplessed III Felal Livel	Top Hit Descriptor	CM3-FT0100-140700-242-h08 FT0100 Homo sapiens cDNA	ob18d02.s1 NCI_CGAP_Kid5 Homo saplens cDNA clone IMAGE:13240353'	DNA-DIRECTED RNA POLYMERASE II LARGEST SUBUNIT (VERSION 1)	DNA-DIRECTED RNA POLYMERASE II LARGEST SUBUNIT (VERSION 1)	zn89h10.r1 Stratagene lung carcinoma 937218 Homo sapiens cDNA clone IMAGE:565315 5' similar to contains THR.t2 THR repetitive element;	zn88h10.r1 Stratagene lung carcinoma 937218 Homo sapiens cDNA clone IMAGE:565315 5' similar to contains, THR to THR repetitive element:	wz88c02x1 NCI_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2565890 3' similar to TR:075139	0/5139 KIAA0644 PRO I EIN.	Homo sapiens X28 region near ALD locus containing dual specificity phosphatase 9 (DUSP9), ribosomal protein L18a (RPL18a), Ca2+/Calmodulin-dependent protein kinase I (CAMKI), creatine transporter (CRTR),	CDM protein (CDM), adrenoleukodystrophy protein >	EST60487 Activated T-cells XX Homo sapiens cDNA 5' and similar to similar to serine protease P100, Ra-	reactive factor	EST60487 Activated T-cells XX Homo sapiens cDNA 5' end similar to similar to serine protease P100, Re-	reactive factor	HA0536 Human fetal liver cDNA library Homo sapiens cDNA	CM0-BT0281-031199-087-a03 BT0281 Homo sapiens cDNA	Homo sapiens chromosome 21 segment HS21C048	Homo saplens X28 region near ALD locus containing dual specificity phosphatase 9 (DUSP9), ribosomal	procein L'od (NTL: 104), car-7-carricourin-beparted it protein Misse (Convin), creatire danaporte (Christ).	Danio rerio fibroblast growth factor receptor 4 mRNA, complete cds	Homo sapiens DNA polymerase delta small subunit (POLD2) gene, exons 1 through 11 and complete cds	Homo sapiens hypothetical protein PRO2130 (PRO2130), mRNA	Homo sapiens hypothetical protein PRO2130 (PRO2130), mRNA	neb76f05.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE: 3'	Homo sapiens S164 gene, partial cds; PS1 and hypothetical protein genes, complete cds; and S171 gene,	Value of the second of second HC21C072	nano saprens antanosame at segment noz 1007o	CELL SURFACE GLYCOPROTEIN 1 PRECURSOR (OUTER LAYER PROTEIN B) (S-LAYER PROTEIN 1)
באטון דוטטפ	Top Hit Database Source	EST_HUMAN	EST_HUMAN	SWISSPROT	SWISSPROT	EST_HUMAN	NAMI H TOTA		EST HUMAN		FZ		EST HUMAN		EST_HUMAN	EST_HUMAN	EST_HUMAN	N		Ž	12	۲۷	N	LZ.	EST_HUMAN	Ė	L L	Ž	SWISSPROT
ချက်မ	Top Hit Acession No.	3.0E-13 BF372962.1	3.0E-13 AA745844.1	218816	218616	3.0E-13 AA134017.1	3 0F-13 44134017 1		3.0E-13/AW005639.1		3.0E-13 U52111.2		3.0E-13]AA352487.1		3.0E-13 AA352487.1	3.0E-13 AI064768.1	3.0E-13 BE063509.1	3.0E-13 AL163248.2		2.0E-13 U52111.2	U23839.1	2.0E-13 AF239710.1	8924119 NT	R924119 NT	2.0E-13 BF431899.1	2 0E 12 & E400007 4	A1 4000740.1	2.0E-13 AL1632/8.2	Q06852
	Most Similar (Top) Hit BLAST E Value	3.0E-13	3.0E-13	3.0E-13 P18818	3.0E-13 P18616	3.0E-13	3.05.43		3.0E-13		3.0E-13		3.0E-13		3.0E-13	3.0E-13	3.0E-13	3.0E-13		2.0E-13	2.0E-13 UZ3839.1	2.0E-13	2.0E-13	2.0E-13	2.0E-13	2 05 43	2,000	Z.UE-13	2.0E-13 Q06852
	Expression Signal	2.75	3.1	1.04	1.04	0.7	20		0.68		9.50		0.66		0.66	4.07	2.91	2.49		2.58	2.22	8.84	0.58	0.58	1.2	117	-	8	5.27
	ORF SEQ ID NO:	27812			28638	31060	31061		31515		33274		33464		33465		36464			25312		26427	28133		L	C788C			31647
	Exon SEQ ID NO:		15833	16155	L	18356	18356	1	18757		20366	L	20563		20563	73092	23443			12824	L	13907	15654	15854	L	18150	ı	18//8	18879
	Probe SEQ ID NO:	2887	3221	3551	3551	5730	5730		6143		7824		8021		8021	10558	10924	11469		161	260	1313	3038	3038	3320	3556	3	4186	6271

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					,		
Probe SEQ ID NO:	SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
8905	19639	32475	7.42	2.0E-13	13 X16912.1	NT	Human PFKL gene for liver-type 6-phosphofructokinase (EC 2.7.1.11) exon 2
10355	1		4.58	2.0E-13	5031896 NT	NT	Homo sapiens mab-21 (C. elegans)-like 1 (MAB21L1) mRNA
11893	L.		ľ	2.0E-13	13 AW 892155.1	EST_HUMAN	CMG-NN0001-100300-274-e11 NN0001 Homo sapiens cDNA
313	L	25455			13 S74129.1	NT	FGF-1≕fibroblast growth factor 1 [human, kidney, Genomic, 342 nt, segment 2 of 2]
921	L		4	1.0	13 AJ007973.1	NT	Homo sapiens LGMD2B gene
							H.sapiens DMA, DMB, HLA-Z1, IPP2, LMP2, TAP1, LMP7, TAP2, DOB, DQB2 and RING8, 9, 13 and 14
1381	13974	26502	1.01	1.0E-13	13 X87344.1	N	genes
	L						rw21g02.s1 NCI_CGAP_GCB0 Home sapiens cDNA clone IMAGE:1241138 3' similar to contains THR.13
2068	14648	27220	1.6	1.0E-	13 AA720574.1	EST_HUMAN	I HK repetitive element
4118	1		2.21	1.0E-13	13 AA324394.1	EST_HUMAN	EST27235 Cerebellum II Homo sapiens cDNA 5' end similar to EST containing L1 repeat
4696	3 17278	29724	1.51	1.0E-13	13 BF340987.1	EST_HUMAN	602038009F1 NCI_CGAP_Brn64 Homo sepiens cDNA clone IMAGE:4185866 5
						1	nn24d01.s1 NCI_CGAP_Gas1 Homo sapiens cDNA clone IMAGE:1084801 3' similar to contains Alu
7851	20393	33296	0.77	1.0E	13 AA577812.1	ESI HUMAN	ופספוווע פיפוופון ועבו אין אין ופספוופון אודי אין ופספוופון אין אין אין אין אין אין אין אין אין אי
							Inn24001.s1 NCI_CGAP_Gas1 Homo sapiens cDNA clone IMAGE:1084801 3 similar to contains Alu
7851	20383	33297	0.77	1.06	13 AA577812.1	EST HUMAN	repetitive element, contains element MER24 repetitive element;
10002	L		6.0	1.0E	13 015481	SWISSPROT	MELANOMA-ASSOCIATED ANTIGEN B4 (MAGE-B4 ANTIGEN)
10202	L	35691	0.52	1.0E	13 AF300701.1	NT	Mus musculus osteotesticular protein tyrosine phosphatase mRNA, complete cds
	L						7145e10.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo saplens cDNA clone IMAGE:3524443 3 similar to
11256	3 23786	36842	15.07	1.0E	-13 BF108755.1	EST_HUMAN	contains MER29.b2 MER29 repetitive element;
11714	4 24124		1.87	1.0E	-13 AV715377.1	EST_HUMAN	AV715377 DCB Homo sapiens cDNA clone DCBAIE03 5
12393	L		4.28	1.0E	-13 AJ271735.1	NT	Homo sapiens Xq pseudoautosomal region; segment 1/2
							aj 24c01.s1 Soares_testis_NHT Hamo sapiens cDNA clone 1391232 3' similar to contains MER19.t1 MER19
355	13004	25488	4.61	9.0E	-14 AA781159.1	EST_HUMAN	repetitive element;
	L						ej24-001.s1 Soares_testis_NHT Homo sapiens cDNA clone 1391232 3' similar to contains MEK19.t1 MEK19
356	13005	25489	2.07	9.0E	-14 AA781159.1	EST_HUMAN	repetitive element
2545				L	9.0E-14 AW861577.1	EST_HUMAN	RC4-CT0322-080100-013-409 CT0322 Homo sapiens cDNA
2627	1_	27757			9.0E-14 AJ133127.1	F	Homo sapiens mRNA for sodium-glucose cotransporter (SGLT2 gene)
2627	上	L			9.0E-14 AJ133127.1	LN LN	Homo sapiens mRNA for sodium-glucose cotransporter (SGLT2 gene)
2782	L.	L	3.29		9.0E-14 AB038162.1	N.	Homo sapiens TFF gene cluster for trefoil factor, complete cds
3145				١	9.0E-14 AW513298.1	EST HUMAN	xc54h05.x1 NCI_CGAP_Ut1 Homo sapiens cDNA clone IMAGE:2707833 3'
	1	L					aj 24c01.s1 Soares_testis_NHT Homo sapiens cDNA clone 1391232 3' similar to contains MER19.t1 MER19
3275	13004	25488	0.71		9.0E-14 AA781159.1	EST_HUMAN	repetitive element;
3886	ı		7.24		9.0E-14 D14547.1	N	Human DNA, SINE repetitive element
		l			9 0E-14 AJ002153.1	Ž	Saguinus oodipus gene for seminal vesicle secreted protein semenogelin i
4870					1 7000 1000		

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Single Exon Probes Expressed in Fetal Liver	Тор Hit Descriptor	hz71c09.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3213424 3'	y72e03.r1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:144798 3'	H.sapiens DNA for endogenous retroviral like element	2q17c10.s1 Stratagene fetal retina 937.202 Homo sapiens cDNA clone IMAGE:629970 3'	QV2-BT0258-261099-014-a01 BT0258 Homo sapiens cDNA	wc92h08.x1 NCI_CGAP_Co3 Homo sapiens cDNA clone IMAGE:2328143 3'	x87e10.x1 NCI_CGAP_Gas4 Homo septens cDNA clone IMAGE:2623146 3' similar to contains MER10.t2 MER10 repetitive element;	Homo saplens chromosome 21 segment HS21C085	Homo sapiens FRA3B common fragile region, diadenosine triphosphate hydrolase (FHIT) gene, exon 5	Homo sapiens FRA3B common fragile region, diadenosine triphosphate hydrolase (FHIT) gane, exon 5	Homo sapiens FRA3B common fragile region, diadenosine triphosphate hydrolase (FHIT) gene, exon 5	CANALICULAR MULTISPECIFIC ORGANIC ANION TRANSPORTER 1 (MULTIDRUG RESISTANCE-ASSOCIATED PROTEIN 2) (CANALICULAR MULTIDRUG RESISTANCE PROTEIN)	xb03b05.x1 NCI_CGAP_GU1 Homo sapiens cDNA clone IMAGE:2575185 3' similar to contains L1.t2 L1	repetitive element;	LINE-1 REVERSE TRANSCRIPTASE HOMOLOG	S-ANTIGEN PROTEIN PRECURSOR	Homo sapiens LGMD2B gene	zk87a08.r1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:487858 5'	yy/3c12.s1 Soares_multiple_sclerosis_2NbHMSP Homo sapiens cDNA clone IMAGE:279190 3' similar to contains L1.t3 L1 repetitive element;	H. sapiens DMA, DMB, HLA-Z1, IPP2, LMP2, TAP1, LMP7, TAP2, DOB, DQB2 and RING8, 9, 13 and 14	genes	LINE-1 REVERSE TRANSCRIPTASE HOMOLOG	wm08c03.x1 NCI_CGAP_Ut4 Homo sapiens cDNA clone IMAGE:2435332.3' similar to contains Alurapetitive element;	R.norvegicus mRNA for CPG2 protein	xp45f12.x1 NCI_CGAP_HN11 Homo sapiens cDNA clone IMAGE:2743343 3' similar to contains Alu repetitive element;contains element MER9 repetitive element;
Exon Probes	Top Hit Database Source	EST_HUMAN	EST_HUMAN	LN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	FX	NT	Ä	Į.	SWISSPROT		EST_HUMAN	SWISSPROT	SWISSPROT	NT	EST_HUMAN	EST_HUMAN		NT	SWISSPROT	EST HUMAN	Z	EST_HUMAN
Single	Top Hit Acession No.	8.0E-14 BE468263.1	376269.1		E-14 AA219316.1	8.0E-14 BE062558.1	E-14 AI688118.1	E-14 AW151673.1	E-14 AL163285.2	6.0E-14 AF020503.1	6.0E-14 AF020503.1	6.0E-14 AF020503.1	263120		5.0E-14 AW073791.1	E-14 P08547	E-14 P04928	E-14 AJ007973.1	E-14 AA046502.1	4.0E-14 N46328.1		E-14 X87344.1	E-14 P08548	4.0E-14 AI886224.1	X95466.1	3.0E-14 AW 265354.1
	Most Similar (Top) Hit BLAST E Value	8.0E-14	8.0E-14	8.0E-14	8.0E-14	8.0E-14	8.0E-14	7.0E-14	7.0E-14	6.0E-14	6.0E-14	6.0E-14(5.0E-14 Q63120		5.0E-14	5.0E-14	4.0E-14	4.0E-14	4.0E-14	4.0E-14		4.0E-14	4.0E-14	4.0E-14.	3.0E-14 X95466.1	3.0E-14
	Expression Signal	26.0	3.29	36.57	4.61	4.45	2.07	2.78	0.54	14.21	3.27	3.27	5.26		1.53	4.91	1.61	3.86	0.84	0.9		0.49	1.91	4.37	1.26	0.74
	ORF SEQ ID NO:			33211	34825		30972			25525	35212	35213	25747			31053		27062		29412			37135		26110	30075
	Exon SEQ (D NO:	16149	16627	20308	21878	23803	24368	15447	21390	13036	22234	22234	13269			18350	15434	14505	16418	16966			24073	25107	13597	17832
	Probe SEQ ID NO:	3545	4029	6966	9479	11310	12106	1671	8851	390	9736	9736	646		5209	5724	1162	1920	3816	4379		7899	11633	12457	986	5059

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	Top Hit Descriptor	Homo sapiens chromosome 21 segment HS21C103	Homo saplens ribosomal protein L23A (RPL23A) gene, complete cds	HISTIDINE-RICH PROTEIN PRECURSOR (CLONE PFHRP-II)	RC2-CT0432-310700-013-a09_1 CT0432 Homo sapiens cDNA	RC2-CT0432-310700-013-e09_1 CT0432 Homo sapiens cDNA	ae89c12.s1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:971350 3'	xq39h10.x1 NCI_CGAP_Lu28 Homo sapiens cDNA clone IMAGE:2753059 3'	Bos taurus xenobiolic/medium-chain fatty acid:CoA ligase form XL-III mRNA, nuclear mRNA encoding	mitochondrial protein, complete cds	Homo sapiens prominin (mouse)-like 1 (PROML1), mRNA	Homo sapiens prominin (mouse)-like 1 (PROML1), mRNA	Homo sapiens protein tyrosine phosphatase, receptor type, T (PTPRT), mRNA	Homo sapiens transcription factor IGHM enhancer 3, JM11 protein, JM4 protein, JM5 protein, T54 protein,	JM10 protein, A4 differentiation-dependent pratein, triple LIM domain protein 6, and synaptophysin genes,	complete cds; and L-type calcium channel a>	GAG POLYPROTEIN (CONTAINS: CORE PROTEINS P15, P12, P30, P10)	601677750F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3960156 5	Homo sapiens chromosome 21 segment HS21C047	601148632F1 NIH_MGC_19 Home sapiens cDNA clone IMAGE:3164023 5	601458531F1 NIH_MGC_86 Homo sapiens cDNA clone IMAGE:3862086 5:	xn77d02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2700483 3' similar to contains THR.2 THR repetitive element;	2857408.r1 NCI_CGAP_GCB1 Home saplens cDNA clone IMAGE:701563 5' similar to gb:L21934 STEROL	C-ACTUINATE CASE (HOWAN), CONTAINS LIST I EPERATURE ETHERS.	Homo sapiens Xq pseudoautosomai region; segment 2/2	O aries mRNA for hair keratin cysteine-rich protein	O.aries mRNA for hair keratin cysteine-rich protein	QV1-LT0036-150200-070-c10 LT0036 Homo sapiens cDNA	nab81c12.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE: 3'	Hano sapiens chromosome 21 segment HS21C008	Human hereditary haemochromatosis region, histone 2A-like protein gene, hereditary haemochromatosis (HI & H) rane RoRei nane and exclime phosphate transporter (NDT3) and complete and	The state of the s	UI-H-BW0-qib-g-10-0-UI.\$1 NCI_CGAP_Sub6 Home sapiens cDNA clone IMAGE:2731219 3
2001 1000	Top Hit Database Source	N	N	SWISSPROT	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN		NT	IN	N	NT			NT	SWISSPROT	EST_HUMAN	N	EST_HUMAN	EST_HUMAN	EST_HUMAN	10.1	NAMOR I CO	Į.	NT	NT	EST_HUMAN	EST_HUMAN	INT	ŀ	111	LEST HUMAN
26	Top Hit Acession No.	E-14 AL163303.2	1.0E-14 AF001689.1	P05227	1.0E-14 BF335227.1	1.0E-14 BF335227.1	1.0E-14 AA682994.1	1.0E-14 AW275852.1		1.0E-14 AF126145.1	11437150 NT	11437150 NT	7427522 NT			E-15 AF196779.1	P21416	9.0E-15 BE903559.1	9.0E-15 AL163247.2	8.0E-15 BE261482.1	E-15 BF035327.1	7.0E-15 AW 241958.1	7 207 7 4 4	7.05-13/2/204403.1	6.0E-15 AJ271736.1	8.0E-15 X73462.1	E-15 X73462.1	8.0E-15 AW836843.1	6.0E-15 BF432200.1	E-15 AL 163208.2	101128 1	3.0E-13 091326.1	AW 29661 / 1
	Most Similar (Top) Hit BLAST E Value	1.0E-14	1.0E-14	1.0E-14 P05227	1.0E-14	1.0E-14	1.0E-14	1.0E-14		1.0E-14	1.0E-14	1.0E-14	9.0E-15			9.0E-15	9.0E-15 P21416	9.0E-15	9.0E-15	8.0E-15	7.0E-15	. 7.0E-15	10.5	01-30.7	6.0E-15	8.0E-15	6.0E-15	8.0E-15	6.0E-15	5.0E-15	5 OF 15	0.00.0	5.05-15
	Expression Signal	5.33	5.89	1.51	3.91	3.91	2.1	1.71		2.03	12	12	1.19			1.39	3.77	1.36	1.76	1.17	1.29	2.53	0. 7	0/:-	6.29	1.18	1.18	1.86	1.3	5.19	226	2007	1,06
	ORF SEQ ID NO:		27591	١				29599		31332		32184	26744				32892	33410			32619				26156	31440	31441			25563	27012	١	
	Exen SEQ ID NO:			•		l	16553	17155		-		24770	14213			14792	20029	20501	24660	13138	19763	22825	244.6	20147	13641	18694	18694		24722	13068	15942	ı	16120
	Probe SEQ ID NO:	2228	2453	2971	3203	3203	3955	4572		5977	6778	8778	1620			2217	7507	7959	12560	2837	7233	10331	077.70	2//-	1031	6077	6077	11182	12648	435	2780	3 3	3515

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					25.15	CAULT LONG	Olligia Exoli Frobas Expressed III starting
Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	: Top Hit Descriptor
5289	17861		1.28	5.0E	-15 P11369	SWISSPROT	RETROVIRUS-RELATED POL POLYPROTEIN (CONTAINS: REVERSE TRANSCRIPTASE ; ENDONUCLEASE)
10555	23091		2.72	5.0E	-15 AV730058.1	EST_HUMAN	AV730056 HTF Homo sapiens cDNA clone HTFAVE08 5'
452	12681	25137	2.33	4.0E	-15 AL163303.2	۲	Homo sapiens chromosome 21 segment HS21C103
8771	19364	32173		4.0E	-15 AB007970.1	ΙN	Homo sapiens mRNA, chromosome 1 specific transcript KIAA0501
10940	20287			4.0E	-15 AJ130894.1	Ę	Homo sapiens mRNA for transcription factor
10940	20287			4.0E	-15 AJ130894.1	N	Homo sapiens mRNA for transcription factor
4297	16883		7.28	3.05	-15 N89452.1	EST HUMAN	LY1142F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA clone LY1142 5' similar to ANF(CARDIODILATIN)
5080	17633		0.57	3.0E	-15 P92485	SWISSPROT	NADH-UBIQUINONE OXIDOREDUCTASE CHAIN 5
5179	17748			3.0E	-15 AA078097.1	EST_HUMAN	7P01F03 Chromosome 7 Placental cDNA Library Homo sapiens cDNA clone 7P01F03
5179	17748	30178		3.05	-15 AA078097.1	EST_HUMAN	7P01F03 Chromosome 7 Placental cDNA Library Homo sapiens cDNA clone 7P01F03
6904	19638		1.41	3.0E	-15 Q64625	SWISSPROT	GLUTATHIONE PEROXIDASE RY201 PRECURSOR (ODORANT-METABOLIZING PROTEIN RY2D1)
7323	19850	32711	3.48	30.€	-15 M27685.1	TN	Mus musculus ultra high suffur keratin gene, complete cds
7323	19850		3.48	3.0E	-15 M27685.1	NT	Mus musculus ultra high sulfur keratin gene, complete cds
6886	22337		2.32	30.6	-15 AA807128.1	EST HUMAN	oc38e07.s1 NCLCGAP_GCB1 Homo sapiens cDNA clone IMAGE:1351764 3' similar to contains MER19.11 MER19 repetitive element;
		1					Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes,
10673	23205	36218		3.0E		۲	complete cds)
12114	24997		1.38	3.0E	-15 AJ271735.1	NT	Homo saplens Xq pseudoautosomal region; segment 1/2
271	12928	25415	4.1	2.0E	-15 AF223391.1	FZ	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
391	13037	25526	3.78	2.05	-15 AF223391.1	F	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
391	13037	25527	3.78	2.05	-15 AF223391.1	Ę	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spiroed
2410	14978			2.05	-15 BE350127.1	EST_HUMAN	ht09g01.x1 NCI_CGAP_Kid13 Homo sepiens cDNA clone IMAGE:3146256 3' similar to contains MER29.b3 MER29 repetitive element;
2410	14978	27553	1.44	2.05	-15 BE350127.1	EST_HUMAN	ht09g01.x1 NCI_CGAP_Kid13 Homo sapiens cDNA clone IMAGE:3146256 3' similar to contains MER29.b3 MER29 repetitive element;
3559	16163	28645	0.73	2.05	-15 AF223391.1	٦.	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
3559	16163		0.73	2.0E	-15 AF223391.1	Ę	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, axons 7-49, and partial ods, alternatively spiced

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יישל ראלון הספר דילון פנים דיל פי	Top Hit Descriptor	xp26h01.x1 NCI_CGAP_HN10 Homo sepiens cDNA clone IMAGE:2741521 3' similar to contains L1.t3 L1 repetitive element;	wf07f06.xf Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2349923 3' similar to TR:Q61043 Q61043 NINEIN :	REPETITIVE PROLINE-RICH CELL WALL PROTEIN 2 PRECURSOR	REPETITIVE PROLINE-RICH CELL WALL PROTEIN 2 PRECURSOR	801344253F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3877268 5'	601344253F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3677268 5'	Homo sapiens ASCL3 gene, CEGP1 gene, C11orf14 gene, C11orf15 gene, C11orf18 gene and C11orf17 gene	277903.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:460924 3'	za78d10.r1 Soares, fetal Jung, NbHL19W Homo sapiens cDNA done IMAGE:298675 5' similar to WP:F44F4.8 CE02227 TRANSPOSASE	Human DNA, SINE repetitive element	z77g08.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:728414 5'	Z77g08.r1 Soares_tests_NHT Homo sapiens cDNA clone IMAGE:728414 5'	CM0-HT0244-201099-078-a12 HT0244 Homo sapiens cDNA	CM0-HT0244-201099-078-a12 HT0244 Homo sapiens cDNA	Homo sapiens Xq pseudoautosomal region; segment 1/2	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, atternatively spliced	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced	b28h05.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2270745 3' similar to TR:Q13539 Q13539 MARINER TRANSPOSASE.;	hk40e02.y1 NCI_CGAP_Ov34 Homo sapiens cDNA clone IMAGE:2999162 5'	LINE-1 REVERSE TRANSCRIPTASE HOMOLOG	19940e10.s1 Soares fetal liver spleen 1NFLS Hamo sapiens cDNA clone IMAGE 120234 3' similar to contains	MER6 repetitive element;	QV3-BT0569-270100-074-g05 BT0569 Homo sapiens cDNA	DYNEIN BETA CHAIN, CILIARY	Homo sapiens chromosome 21 segment HS21C080	qf68h08.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1755227 3'	qf88h06.x1 Soares_tests_NHT Homo sapiens cDNA clone IMAGE:1755227 3'
יייייייייייייייייייייייייייייייייייייי	Top Hit Database Source	EST_HUMAN	EST_HUMAN	SWISSPROT	SWISSPROT	EST_HUMAN	EST_HUMAN	TN	EST_HUMAN	EST_HUMAN	N	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	LN TA	N	N _T	EST HUMAN	EST_HUMAN	SWISSPROT		EST_HUMAN	EST_HUMAN	SWISSPROT	NT	EST_HUMAN	EST_HUMAN
iĝ.	Top Hit Acession No.	2.0E-15 AW238499.1	2.0E-15 AI806335.1	P13993	P13993	2.0E-15 BE562352.1	2.0E-15 BE562352.1	2.0E-15 AJ400877.1	2.0E-15 AA704195.1	_	2.0E-15 D14547.1	2.0E-15 AA397758.1	2.0E-15 AA397758.1	2.0E-15 AW379465.1	2.0E-15 AW379465.1	2.0E-15 AJ271735.1	2.0E-15 AF223391.1	2.0E-15 AF223391.1	1.0E-15 Al689984.1	1.0E-15 BE043584.1	P08547		1.0E-15 T95763.1	1.0E-15 BE074217.1	P39057	1.0E-15 AL163280.2	1.0E-15 AI200978.1	1.0E-15 AI200976.1
	Most Similar (Top) Hit BLAST E Value	2.0E-15	2.0E-15	2.0E-15 P13993	2.0E-15 P13993	2.0E-15	2.0E-15	2.0E-15	2.0E-15	2.0E-15	2.0E-15	2.0E-15	2.0E-15	2.0E-15	2.0E-15	2.0E-15	2.0E-15	2.0E-15	1.0E-15	1.0E-15	1.0E-15 P08547		1.0E-15	1.0E-15	1.0E-15 P39057	1.0E-15	1.0E-15	1.0E-15
	Expression Signal	0.95	2.72	0.93	0.93	1.02	1.02	1.37	2.51	4.49	2.62	0.87	0.87	1.13	1.13	3.59	2.97	2.97	2.08	1.24	1.05		171	1.91	0.77	68.0	4.97	4.97
	ORF SEQ ID NO:	29188					31712		32703			34468			34791		28645	28646			28261		31896					33820
	Exon SEQ ID NO:	16734	17310	L			18935	19700	19842	19951	21376			21839		23246	16163	16163	15355	15662				- 1	- 1			20899
	Probe SEQ ID NO:	4142	4729	5332	5332	6328	6328	7168	7315	7427	8837	9005	9005	9325	9325	10718	12487	12487	2803	3046	3176		6510	7080	7105	8174	8359	8359

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Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
6968	21507	34428	0.51	1.0E-15	E-15 AL163207.2	F	Homo sapiens chromosome 21 segment HS21C007
8972	21510	34432	1.99	1.0E-15	TN 8027084	F	Homo sepiens spermidine synthese (SRM) mRNA
9171	21748	34691	0.87	1.0E-15	E-15 Q39575	SWISSPROT	DYNEIN GAMMA CHAIN, FLAGELLAR OUTER ARM
9550	22050	35012	1.18		1.0E-15 AA864653.1	EST HUMAN	oh37c03.s1 NCI_CGAP_Kid6 Homo sapiens cDNA clone IMAGE:1459972.3' similar to contains L1.t3 L1 repetitive element;
10698	23228				E-15 AF044083.1	Z.	Homo saplens major histocompatibility locus class III region
12584	248.30		0.35	-	1 0E-15 AI783044 1	NAM:	131-05.xl NCI_CGAP_Ov23 Homo sapiens cDNA clone IMAGE:2219912.3' similar to contains Alu repetitive
4417	17002	L	0.63	0.6	E-16 BF669487 1	EST HUMAN	62120192F1 NIH MGC 56 Homo sapiens cDNA clone IMAGE:4277422 5
4802	17185	29832	1.11	9.0E-18	4503168 NT	Ę	Homo saplens cut (Drosophila)-like 1 (CCAAT displacement protein) (CUTL1) mRNA
10873	23384		2.66	9.0E-18	9.0E-18 F0888.1	EST_HUMAN	HSC23F051 normalized infant brain cDNA Homo sapiens cDNA clone c-23f05
5880	18502	31228	0.73		4885120 NT	TN	Homo saplens chemokine (C-C motif) receptor 8 (CCR8) mRNA
7379	19905	32769	1.38		088807	SWISSPROT	PROTEIN-ARGININE DEIMINASE TYPE IV (PEPTIDYLARGININE DEIMINASE IV) (PAD-R4) (PEPTIDYLARGININE DEIMINASE TYPE ALPHA)
7379	19905	32770	1.36	7.0	E-16 088807	SWISSPROT	PROTEIN-ARGININE DEIMINASE TYPE IV (PEPTIDYLARGININE DEIMINASE IV) (PAD-R4) (PEPTIDYLARGININE DEIMINASE TYPE ALPHA)
12509	24918		33.75	7.0	E-16 T94149.1	EST HUMAN	ye28c12.r1 Stratagene lung (#937210) Homo sapiens cDNA clone IMAGE:119062 5'
2188	14782		29.26		AW972611.1	EST_HUMAN	EST384702 MAGE resequences, MAGL Homo sapiens cDNA
5436	17991	30397	0.94		6.0E-16 BF365702.1	EST_HUMAN	QV2-NT0048-160800-316-d12 NT0048 Homo sapiens cDNA
1539	14131	26687	121	5.0E-16	5.0E-16 AJ251154.1	Ę	Mus musculus offectory receptor cluster, OR37A, OR37B, OR37C, OR37E genes and OR37D pseudogene
2705	15282	27830	2.8	, c	F-16 AA992176 1	NAM!H TA	ot80c04.s1 Soures_total_fetus_Nb2HF8_9w Homo septens cDNA cione IMAGE:1623078 3' similar to contains element 1 repositive element
11396	23848		3.76		BF217368.1	EST HUMAN	601885734F1 NIH_MGC_57 Hamo sapiens cDNA clone IMAGE:4104129 5'
12606	24690		4.98	5.0E-16	5.0E-16 11418127 NT	Z	Homo sapiens GTP binding protein 1 (GTPBP1), mRNA
2281	14855		1.23	4.0E-16	AB001523.1	TN	Homo saplens gene for TMEM1 and PWP2, complete and partial cds
2419	14987	27561	1.68	4.0E-16	4.0E-16 AW797168.1	EST_HUMAN	QV1-UM0036-200300-115-g02 UM0036 Homo sapiens cDNA
2419	14987	27562	1.68	4.0	E-16 AW 797168.1	EST_HUMAN	QV1-UM0036-200300-115-902 UM0036 Homo sapiens cDNA
3503	16108		6.73		4.0E-16/Q16653	SWISSPROT	MYELIN-OLIGODENDROCYTE GLYCOPROTEIN PRECURSOR
4223	16811		4.28	4.0	4.0E-16 BE083875.1	EST_HUMAN	PM4-BT0650-010400-002-g09 BT0650 Homo sapiens cDNA
4223	16811		4.28		E-16 BE083875.1	EST_HUMAN	PM4-BT0650-010400-002-g09 BT0650 Homo sapiens cDNA
7698	20207		37.48		4,1632	Z	Homo sapiens chromosome 21 segment HS21C084
9219	21738				11423191 NT		Homo sapiens hypothetical protein FLJ10024 (FLJ10024), mRNA
11098	23608	36648	1.68		4.0E-16 AV730030.1	EST_HUMAN	AV730030 HTF Homo sepiens cDNA clone HTFAW A03 5'

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Table 4
Single Exon Probes Expressed in Fetal Liver

					O.B.	יייייייייייייייייייייייייייייייייייייי	כוויפור בייניון וכמכת ביילה מכסכת ווון פומו דוג פו
Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
11800	24180		1.34	4.0E-16	E-16 P08548	SWISSPROT	LINE-1 REVERSE TRANSCRIPTASE HOMOLOG
11887	24232		13.76		4.0E-16 C05947.1	EST_HUMAN	C05947 Human pancreatic islet Homo sapiens cDNA clone hbc5355
11897	24239	31006	2.91	4.0E-16	6912459 NT	N	Homo sapiens Grb2-associated binder 2 (KIAA0571) mRNA
12178	24414		1.8		4.0E-16 R18591.1	EST_HUMAN	y96b11.r1 Scares Infant brain 1NIB Homo sapiens cDNA clone IMAGE:30489 5'
138	12803	25292	0.93	3.0E-16	3.0E-16 AW022862.1	EST_HUMAN	df45c01.y1 Marton Fetal Cochlea Homo sapiens cDNA clone IMAGE:2486376 5
138	12803		0.93	3.0E-16	AW022862.1	EST_HUMAN	df45c01.y1 Morton Fetal Cochiea Homo sapiens cDNA clone IMAGE:2486376 5:
491	13124		1.24	3.0E-16	3.0E-16 AL046445.1	EST_HUMAN	DKFZp434P037_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434P037 5
501	13133		2.35	3.0E-16	AF135446.1	N	Homo sapiens TSX (TSX) pseudogene, exon 5
1501	14093	26632	1.81	3.0E-16	0.28983	SWISSPROT	ZONADHESIN PRECURSOR
3004	15820	28097	4.2		P03200	SWISSPROT	ENVELOPE GLYCOPROTEIN GP340 (MEMBRANE ANTIGEN) (MA) [CONTAINS: GLYCOPROTEIN GP220]
4007	16605	29079	0.61	3.0E-16 T08169.	T08169.1	EST HUMAN	EST06060 Infant Brain, Bento Soares Homo sapiens cDNA clone HIBBA13 5' end
4031	16629		1.07	3.0E-16	3.0E-16 U03887.1	N	Human BXP20 gene
4680	17271	20720	70.0	2 OE.18	3 0E-16 AW160929 1	NAL III	ลบ76b08.yf Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2782183 5' similar to SW XIDA MOLISE กลราสง DENAL TDANSCEIDTHON EACTOR หาก รา
5077	17650	30091	1.14	3.0E-18	AV661393.1	EST HUMAN	AV661383 GLC Home septens cDNA clone GLCGSA013
5482	18116		6.0	3.05-16	3.0E-16 AA077225.1	EST HUMAN	7810F02 Chromosome 7 Fetal Brain cDNA Library Homo sapiens cDNA clone 7810F02
5801	18426	31144	1.57	3.0E-16	AF003529.1	NT	Homo saplens glypican 3 (GPC3) gene, partial cds and flanking repeat regions
0000	2000	2,000	90	70.0	1 0000001	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	am98h05.s1 Strategene schizo brain S11 Homo sapiens cDNA clone IMAGE:1684185.3' similar to contains
9805	22303	24046	280	3.0E-18	3.0E-16 RF690617.1	EST HUMAN	17K.02 I RK lepetitive etement ; 602246538F1 NIH MGC 62 Homo seniens cDNA clone IMAGE 4332032 5
10027	22522	35518			3.0E-16 L78810.1	NT	Homo sapiens ADP/ATP carrier protein (ANT-2) gene, complete cds
12637	25078	30516				EST_HUMAN	DKFZp434L1623_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434L1623 5
1007	13618		1.38	2.0E-16		NT	Hano sapiens chranosome 21 segment HS21C079
2429	14996		1,01	2.0E-16	AA621761.1	EST_HUMAN	af06d04.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1030855.31
2713	15270		1.53	2.0E-16		TN	Human SSAV-related endogenous retroviral LTR-like element
4257	16843	29292	1.34	2.0E-16		TN	H.sapiens DNA for endogenous retroviral like element
5370	17930	30344	0.57	2.0E-18	2.0E-16 BE061178.1	EST_HUMAN	RC3-BT0046-131199-003-H12 BT0046 Homo sapiens cDNA
6839	19429	32245	0.89	2.0E-16	Q31125	SWISSPROT	HISTIDINE-RICH PROTEIN KE4
7701	20210	33097	0.76		2.0E-16 AI470723.1	EST HUMAN	tifee1.xt NCI_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2141708 3' similar to contains element MER33 repetitive element
7908	20450	33357	1.81	2.0E-18	2.0E-16 AI732837.1	EST_HUMAN	nz4/f06.x5 NCI_CGAP_Pr12 Homo sapiens cDNA clone IMAGE:1280947 similar to TR:054849 054849 HYPOTHETICAL 42.9 KD PROTEIN [2] TR:008905 ;contains MER7.t1 MER7 repetitive element:

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Table 4
Single Exon Probes Expressed in Fetal Liver

Probe SEQ ID NO:	Exen SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
808	20640	33551	0.7	2.0E-16	-16 BE858026.1	EST_HUMAN	7/82h09.x1 NCI_CGAP_Pr28 Homo sapiens cDNA clone IMAGE:3303521 3'
8099			0.7	2.0E-16	2.0E-16 BE858026.1	EST_HUMAN	7f82h09.x1 NCI_CGAP_Pr28 Home sapiens cDNA clone IMAGE:3303521 3'
8484				2.0E-16	2.0E-16 AW877214.1	EST_HUMAN	CM4-PT0034-180200-506-g01 PT0034 Homo saplens cDNA
8464	_			2.0E-16	2.0E-16 AW877214.1	EST_HUMAN	CM4-PT0034-180200-506-a01 PT0034 Homo sapiens cDNA
10808	23331	36343	2.71	2.0E-16	5902145 NT	Z.	Homo sapiens ubiquitin carrier protein E2-C (UBCH10), mRNA
197	12857	25339	2.56	1.0E-16	1.0E-16 AF200719.1	LN	Homo sapiens pituftary tumor transforming gene protein (PTTG) gene, complete cds
							af39g11.s1 Soares_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:1034084 3' similar to
405	13080		29.83	1.0E-16	1.0E-16 AA628592.1		contains OFR.t2 OFR repetitive element;
2014	14596			1.0E-16	1.0E-16 BF327942.1	EST_HUMAN	QV0-BN0148-070700-283-a10 BN0148 Homo sapiens cDNA
9889	18518	31243	98.0	1.0E-16	1.0E-16 AF163864.1	TN	Homo sapiens SNCA isoform (SNCA) gene, complete cds, alternatively spliced
9999	19163		27.66	1.0E-16	1.0E-16 U45983.1	NT	Hamo sapiens CCR8 chemokine receptor (CMKBR8) gene, complete cds
8899	19284	32087	2.77	1.0E-16	1.0E-16.002779	SWISSPROT	MITOGEN-ACTIVATED PROTEIN KINASE KINASE KINASE 10 (MIXED LINEAGE KINASE 2) (PROTEIN KINASE MST)
7558	19163		8.98	1.0E-16	1.0E-16 U45983.1	NT	Homo saplens CCR8 chemokine receptor (CMKBR8) gene, complete cds
9207	21724			1.0E-16	1.0E-16 AW875651.1	EST HUMAN	QV2-PT0012-040400-124-e05 PT0012 Homo sapiens cDNA
3802	16402	28866	2.48	9.0E-17	9.0E-17 AW900048.1	EST_HUMAN	CM1-NN1003-200300-153-e01 NN1003 Homo saprens cDNA
							tg22c11.x1 NCI_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:2109524 3' similar to contains MER28.t2
\$28 824	19414		1.84	9.0E-17	9.0E-17 Al392964.1	ESI HOMAN	MEKZ8 repeative evernent;
8052	20594		4.65	9.0E-17	9.0E-17 AW150257 1	EST HUMAN	xg49g12.x1 NCI_CGAP_Ut1 Homo sapiens cDNA clone IMAGE:2630950 3' similar to contains OFR.t2 OFR repetitive element:
10124	L		2.1	9.0E-17	9.0E-17 AF200719.1	NT	Homo sapiens pituitary tumor transforming gene protein (PTTG) gene, complete cds
1056	13681		1.59	8.0E-17	8.0E-17 AW880701.1	EST_HUMAN	QV0-OT0032-080300-155-d01 OT0032 Homo sapiens cDNA
3961	16559		2.0	8.0E-17	8.0E-17 AL163280.2	Ĭ	Homo sapiens chromosome 21 segment HS21C080
5771	24748	31111	3.55	8.0E-17	8.0E-17 BE172081.1	EST_HUMAN	MR0-HT0559-080300-003-e04 HT0559 Homo sapiens cDNA
7319	19846		1.82	8.0E-17	8.0E-17 AV730759.1	EST_HUMAN	AV730769 HTF Homo sapiens cDNA clone HTFAQB07 5'
1505	14097		3.4	7.0E-17	N 6753097 NT	INT	Mus musculus apolipoprotein B editing complex 2 (Apobec2), mRNA
5526	18158		2.97	7.0E-17	7.0E-17 AF216650.1	NT	Homo saplens putative MTAP (MTAP) mRNA, partial cds, alternatively spliced
							Mus musculus WNT-2 gene, partial cds; putative ankyrin-related protein and cystic fibrosis transmembrane
62.89	19380			7.0E-17	7.0E-17 AF229843.1	L	conductance regulator (CFTR) genes, section 1 of 2 of the complete cds; and unknown gene
217	12878	25365	7.43	6.0E-17	6.0E-17 AW983880.1	EST_HUMAN	RC1-HN0003-220300-021-b04 HN0003 Homo sapiens cDNA
6455			1.68	6.0E-17	6.0E-17 AW 662772.1	EST_HUMAN	hi81d04.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2978695 3' similar to contains L1.t2 L1 repetitive element;
10192	22687			6.0E-17	-17 P20138	SWISSPROT	MYELOID CELL SURFACE ANTIGEN CD33 PRECURSOR (GP67)

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	_	_		-	_	_	_		_	_	_	-	_			_	_	_		_		_	_		_		_	_	_	_	_	
Top Hit Descriptor	yc05h08.r1 Stratagene lung (#937210) Homo sapiens cDNA clone IMAGE.79839 5'	yd26b04.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:109327 5'	x/20e04.x1 NCL_CGAP_Kid8 Homo sapiens cDNA clone IMAGE:2618622.3' similar to contains Alu repetitive element;contains MER19.b1 MER19 repetitive element;	Homo sapiens chromosome 21 segment HS21C047	ov45eO4.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1640286 3' similar to TR:Q16530	CLIOSOV PRIOSINITINA CONTRAINS INTENTIOLE MICH TO REPORT SHELL	numan DNA, SINE repetitive element	xd89c09.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2604784 3'	MAS-RELATED G PROTEIN-COUPLED RECEPTOR MRG	hw05b04.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3181999 3'	hw05b04.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3181999 3'	UI-H-BI4-aoj-c-05-0-UI.s1 NCI_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3085043 3'	za14b02.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE 292491 3' similar to contains	PTRS: 3 PTRS repetitive element ;	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)	QV3-BN0047-270700-283-a12 BN0047 Homo sapiens cDNA	OV3-BN0047-270700-283-a12 BN0047 Homo saplens CDNA	Homo sapiens SEC14 (S. cerevisiae)-like 2 (SEC14L2); mRNA	q63806.x1 NCI_CGAP_Eso2 Homo sapiens cDNA clone IMAGE:1959922 3' similar to contains Alu	repetitive element;	qt63a06.x1 NCI_CGAP_Eso2 Homo sapiens cDNA clone iMAGE:1959922 3' similar to contains Alu	repetitive element;	zg81d04.s1 Soares_fetal_heart_NbHH19W Homo sapiens cDNA clone IMAGE:399751 3'	ZONADHESIN PRECURSOR	ZONADHESIN PRECURSOR	NEUROFILAMENT TRIPLET H PROTEIN (200 KDA NEUROFILAMENT PROTEIN) (NEUROFILAMENT	HEAVY POLYPEPTIDE) (NF-H)	Mus musculus ultra high suffur keratin gene, complete cds	Mus musculus ultra high suffur keratin gene, complete cds	Homo sapiens MHC class 1 region	DKFZp782J0810_r1 762 (synonym: hmel2) Homo sapiens cDNA clone DKFZp782J0810 5'	Homo sapiens mRNA for KIAA1418 protein, partial cds
Top Hit Detabase Source	EST HUMAN	EST_HUMAN	EST HUMAN	LN TN		EST HUMAN	z	EST_HUMAN	SWISSPROT	EST_HUMAN	EST_HUMAN	EST_HUMAN		EST_HUMAN	F	EST HUMAN	EST HIMAN	N		EST_HUMAN		EST HUMAN	EST_HUMAN	SWISSPROT	SWISSPROT		SWISSPROT	NT	INT	TN	EST HUMAN	LN
Top Hit Acession	T64110.1	0E-17 T81043.1	0E-17 AW 129165.1			0E-17 AIU/3546.1	0E-17 D14547.1	0E-17 AW119123.1	P35410	3.0E-17 BE326522.1	3.0E-17 BE326522.1	0E-17 BF511266.1		0E-17 N68451.1	3 0F-17 AB026898 1	3.0E-17 BF327012.1	BE327012 1	3.0E-17 11417966 NT		.0E-17 A 270080.1		A)270080.1	AA722932.1	2.0E-17 Q28983	0.28983		P12036	2.0E-17 M27685.1	M27685.1	AF055066.1	2.0E-17 AL134881.1	
Most Similar (Top) Hit BLAST E Value	5.0E-17	5.0E-17	4.0E-17			4.0E-17	3.0E-17	3.0E-17	3.0E-17 P35410	3.0E-17	3.0E-17	3.0E-17		3.0E-17	3.0E.17	3.0E-17	3 0F-17	3.0E-17		2.0E-17		2.0E-17	2.0E-17	2.0E-17	2.0E-17		2.0E-17 P12036	2.0E-17	2.0E-17	2.0E-17	2.0E-17	2.0E-17
Expression Signal	2.78	1.82	1.12	2.17	3	2.30	1.03	1.28	1.41	1.24	1.24	1.02		1.09	7 64	0.65	0.65	3.77		3.38		2.68	1.12	2.43	2.43		8.06	1.57	1.57	1.8	1.58	0.85
ORF SEQ ID NO:		32976	34829					27295		28773				33667	18081	L	L	L		25510		25510		27627					30649			33179
Exon SEQ ID NO:		20101	21884		L	-			15839		L		ĺ	20753	22118	L	L	1_	1	13024		13024	13636	15055			15572		18200	19013	l i	20282
Probe SEQ ID NO:	446	7586	9284	11365		91811	5	2146	3227	3704	3704	5181		8212	0648	10282	10282	11775		375		376	1025	2490	2490		2956	5569	5569	6410	6616	7773

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
8028		33474	1.64	2.0E-17	2.0E-17 Q95156	SWISSPROT	OLFACTORY RECEPTOR-LIKE PROTEIN OLF3
8394	20934		1.15		AA300640.1	EST_HUMAN	EST13504 Tests tumor Homo sapiens cDNA 5' end similar to similar to glycogenin
9783				2.0E-17	BE299888.1	EST_HUMAN	600944690F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2960615 5/
9818				2.0E-17	AL163247.2	LN.	Homo sapiens chromosome 21 segment HS21C047
9818		35298	3.36	2.0E-17	2.0E-17 AL163247.2	LN	Homo sepiens chromosome 21 segment HS21C047
							Human CYP19 gene for aromatase cytochroms P-450, promoter region (containing two cis-ecting
10160				2.0E-17		NT	transcriptional regulatory elements)
10281	22776	35765	0.58	2.0E-17	2.0E-17 P98063	SWISSPROT	BONE MORPHOGENETIC PROTEIN 1 PRECURSOR (BMP-1)
10281				2.0E-17	P98063	SWISSPROT	BONE MORPHOGENETIC PROTEIN 1 PRECURSOR (BMP-1)
10308	22800			2.0E-17	AI798902.1	EST_HUMAN	we94b04.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2348719 3'
10308	1 22800			2.0E-17	2.0E-17 AI798902.1	EST_HUMAN	we94b04.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2348719 3'
780	13399		3.38	1.0E-17 P08183	P08183	SWISSPROT	MULTIDRUG RESISTANCE PROTEIN 1 (P.GLYCOPROTEIN 1)
1748			1.2	1.0E-17	1.0E-17 AJ271736.1	N.	Homo sapiens Xq pseudoautosomal region; segment 2/2
1804	14394		2.89	1.0E-17	1.0E-17 AL163207.2	N	Homo sapiens chromosome 21 segment HS21C007
2162		27309		1.0E-17 P02481		SWISSPROT	COLLAGEN ALPHA 1(III) CHAIN PRECURSOR
2373	14943		1.86	1.0E-17	.1	LN	Homo sapiens thrombospondin 2 (THBS2) gene, promoter region and exons 1A and 1B
							Homo saplens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3
3625	1		0.89	1.0E-17	1.0E-17 AF224669.1	NT	(UBE2D3) genes, complete cds
4217	16805		8.46	1.0E-17	1.0E-17 R09942.1	EST_HUMAN	y/30e07.r1 Scares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:128388 5
6759		32161	1.55	1.0E-17	1.0E-17 AI185642.1	EST_HUMAN	qe65b05.x1 Soares_fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE:1743825 3'
6759		32162		1.0E-17	Al185642.1	EST_HUMAN	qe65b05.x1 Soares_fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE:1743825 3'
7148			1.28	1.0E-17	1.0E-17 Q16831	SWISSPROT	URIDINE PHOSPHORYLASE (UDRPASE)
8528	21067				1.0E-17 BE062744.1	EST_HUMAN	QV0-BT0263-101289-072-d07 BT0263 Homo sapiens cDNA
9919	22415	35390	0.94		1.0E-17 AW996538.1	EST_HUMAN	QV3-BN0046-220300-129-c10 BN0046 Homo sapiens cDNA
11295				1.0E-17 Q28824	Q28824	SWISSPROT	MYOSIN LIGHT CHAIN KINASE, SMOOTH MUSCLE (MLCK) [CONTAINS: TELOKIN]
2510	15074	27647	1.13	9.0E-18	9.0E-18 AA174078.1	EST_HUMAN	파18g12.s1 Stratagene fetal retina 937202 Homo sapiens cDNA clone IMA GE:609862 3'
9418	21927		3.03	9.0E-18	9.0E-18 A1472167.1	EST_HUMAN	tj86d03.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:2148389 3'
3854	16452	28915		8.0E-18	4758977 NT	N	Homo sepiens protein tyrosine phosphatase, non-receptor type substrate 1 (PTPNS1) mRNA
							xx10b04.x1 NCI_CGAP_Pan1 Home sapiens cDNA clone IMAGE:2837071 3' similar to gb:L20868 60S
371	13020	25504	32.66		7.0E-18 AW316976.1	EST HUMAN	RIBOSOMAL PROTEIN (4 (HOMAN))
37.	13020	25505	3266	7 0F-18	7 0F-18 AW316976 1	H HIMAN	xx10b04.x1 NCI_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2837071 3' similar to gb:L20868 60S RRIBOSOMAL PROTEIN ! 4 (HLIMAN):
3				2 2 2	T	NUMBER OF THE PARTY OF THE PART	POS OTROMA 17030 OTA 170 OTA 1
/ 469	19991	32854	0.80	/.UE-18	7.0E-18 AW 88/542.1	ES HOMAN	INCS-OT 0081-170500-0 11-805 O 10081 Homo sapiens curva

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Top Hit Descriptor	xx10b04.x1 NCI_CGAP_Pen1 Homo sapiens cDNA clone IMAGE:2837071 3' similar to gb:L20868 60S RIBOSOMAL PROTEIN L4 (HUMAN);	xx10b04 x1 NCI_CGAP_Pen1 Homo sapiens cDNA clone IMAGE:2837071 3' similar to gb:L20868 60S RIBOSOMAL PROTEIN L4 (HUMAN);	Rattus norvegicus partial Gdn/Ph-1 gene for glia-derived nextri/protease nextri , enhancer region		Homo seplens similar to high-mobility group (nonhistone chromosomal) protein 4 (H. sapiens) (LOC63446), mRNA	Homo sapiens chromosome 21 segment HS21C010	Homo sapiens chromosome 21 segment HS21C048	H.sapiens DMA, DMB, HLA-Z1, IPP2, LMP2, TAP1, LMP7, TAP2, DOB, DQB2 and RINGB, 9, 13 and 14 genes	Homo sapiens similar to ribosomal protein L12 (H. sapiens) (LOC63091), mRNA	Human aconitate hydratase (ACO2) gene, exon 4		HUM411F05B Clontach human fetal brain polyA+ mRNA (#6535) Homo sapiens cDNA clone GEN-411F05	7	7		Homo sapiens lymphocyte activation-associated protein (LOC51088), mRNA	Homo sapiens lymphocyte activation-associated protein (LOC51088), mRNA	I MR1-SN0035-060400-001-g11 SN0035 Homo sapiens cDNA	AV650547 GLC Homo sapiens cDNA clone GLCCGA02 3'	1	Т		nq24f11.s1 NCI_CGAP_Co10 Homo sapiens cDNA clone IMAGE:1144845 3' similar to gb:M26326 KERATIN, TYPE I CYTOSKELETAL 18 (HUMAN);	Г	N-ACETYLLACTOSAMINIDE BETA-1, 6-N-ACETYLGLUCOSAMINYLTRANSFERASE (N-ACETYLGLUCOSAMINYLTRANSFERASE) (I-BRANCHING ENZYME) (IGNT)
Top Hit Database Source	EST_HUMAN	EST HUMAN	Į,	SWISSPROT	Ę	N F	ΙN	Ę	μ	FZ	EST HUMAN		ESI HUMAN	LN.	EST_HUMAN	L	NT	EST_HUMAN	EST_HUMAN	MAMI H TRE		EST_HUMAN	EST_HUMAN	EST_HUMAN	SWISSPROT
Top Hit Acession No.	.0E-18 AW316976.1	.0E-18 AW316976.1	.0E-18 X71791.2	.0E-18 P52181	11428155 NT	6.0E-18 AL163210.2	6.0E-18 AL163246.2	.0E-18 X87344.1	11429885 NT	0E-18 U87929.1	.0E-18 AI280214.1	, , , ,	0E-18(D61517.1	5.0E-18 AF087913.1	BE1433	10242378 NT	10242378 NT	5.0E-18 AW867182.1	AV850547.1	0E-18 BE044078 1		0E-18 BE044076.1	0E-18 AA621814.1	0E-18 AI738592.1	0E-18 Q06430
Most Similar (Top) Hit BLAST E Value	7.0E-18	7.0E-18	8.0E-18	8.0E-18	8.0E-18	6.0E-18	6.0E-18	6.0E-18	8.0E-18	6.0E-18	5.0E-18	Le	5.0E-18	5.0E-18	5.0E-18	5.0E-18	5.0E-18	5.0E-18	5.0E-18	4 NF-18		4.0E-18	4.0E-18	4.0E-18	4.0E-18
Expression Signal	5.28	5.26	1.36	3.95	2.75	0.0	1.87	9.1	2.22	2.24	11.3	100	48.0	1.03	4.62	3.68	3.68	6.5	51.19	90		1.96	8,14	0.92	1.23
ORF SEQ ID NO:	25504	25505	28419			33751		36767		30995	26299			30520			36397			25283		25284	28890		27390
Exon SEQ ID NO:	13020	13020	15944	17435	20733	20830	23528	23713	24034	24328	13788	97077	040/	1811	[23378	23378	24409	24844	12797		12797	14344	14517	14817
Probe SEQ ID NO:	12306	12306	3334	4857	8192	8289	11014	11209	11591	12041	1187	2003	220	247	8654	10857	10857	12170	12531	130		130	1754	1933	2242

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					Albino	באטוו דוטטספ	Single Exon Plodes Expressed in retaining
Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
2242	14817	27391	1.23	4.0E-18	0E-18 Q06430	SWISSPROT	N-ACETYLACTOSAMINIDE BETA-1,6-N-ACETYLGLUCOSAMINYLTRANSFERASE (N- ACETYLGLUCOSAMINYLTRANSFERASE) (I-BRANCHING ENZYME) (IGNT)
5566	18197	30643	2:32	4.0E-18		EST_HUMAN	ou23e06.x1 Scares_NFL_T_GBC_S1 Hamo sapiens cDNA clone IMAGE:1627138 3'
5566	18197	30644	2:32	4.0E-18	.0E-18 AI017565.1	EST_HUMAN	ou23906.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1627138 3'
7877	20330		0.84	4.0F-18	0F-18 AA746811 1	FST HUMAN	nx84a08.s.1 NCI_CGAP_Alv1 Homo sapiens cDNA clone IMAGE:1266998 similar to contains L1.t2 L1 repetitive element:
10887	1_	36424			0E-18 44371807 1	H HAAN	EST83633 Pituitary gland, subtracted (prolactin/growth hormone) II Homo sapiens cDNA 5' and similar to EST containing O family repeat
288	<u>L</u> _	<u>L</u>		-	0E-18 AA814196 1	FOT HE IMAN	ob23h11.s1 NCI_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1324581 3' similar to SW:RS5_HUMAN P46782 40S RIBOSOMAL PROTEIN S5.
365	L				BE088634.1	EST HUMAN	CM0-BT0690-210300-298-g07 BT0690 Homo sapiens cDNA
4022	L		1.25	3.0E-18	3.0E-18 AL 163247.2	\ V	Homo sapiens chromosome 21 segment HS21C047
6917	L			3.0E-18	3.0E-18 BE001671.1	EST_HUMAN	PMO-BN0081-100300-001-b08 BN0081 Homo sapiens cDNA
12312	24504		8.85		3.0E-18 AW022015.1	EST_HUMAN	df31h12.y1 Morton Fetal Cochlea Homo sapiens cDNA clone IMAGE:2485126 5'
272	12929	25416	2.57	2.0E-18	2.0E-18 AW 836820.1	EST_HUMAN	QV1-LT0036-150200-070-607 LT0036 Hamo sapiens cDNA
1192			197.1	2.0E-18	BE256097.1	EST_HUMAN	601114352F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3355044 5'
3157	15771	28238	1.15		Q39575	SWISSPROT	DYNEIN GAMMA CHAIN, FLAGELLAR OUTER ARM
5606	18235		3.99		AAB68610.1	EST HUMAN	ak53a07.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1409652 3' similar to TR:O14577 O14577 BAC CLONE RG114A06 FROM 7Q31, COMPLETE SEQUENCE.;
5697	ı	30823			2.0E-18 D14547.1	L _N	Human DNA, SINE repetitive element
5697	18323	30824	3.16		D14547.1	LN.	Human DNA, SINE repetitive element
8038	18657		1.98	2.0E-18		EST_HUMAN	602021164F1 NCI_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4158670 5'
6313	18920	31695	1	2.0E-18	X60459.1	LN	Human IFNAR gene for interferon alpha/beta receptor
6313	18920	31696	1	2.0E-18	X60459.1	NT	Human IFNAR gene for interferon alpha/beta receptor
6424	19027	31810	0.84	2.0E-18	BF352940.1	EST_HUMAN	IL3-HT0619-220700-222-C12 HT0619 Homo saplens cDNA
6460	19061	31847	7.53	2.0E-18	2.0E-18 AW 665853.1	EST HUMAN	hi94g01.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2979984 3' similar to contains MER19.t2 MER19 repetitive element ;
8			1 30	2.0E.18	0E_18 AW151673 1	MAN H FAT	x67e10.x1 NCL_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2623146 3' similar to contains MER10.t2 MFR10 repetitive element
3	L			2			M67e10 v1 NCI CGAP Gas4 Homp sapiens cDNA clone IMAGE: 7623146 3' similar to contains MER10.12
0966	22455	35438	1.39		2.0E-18 AW151673.1	EST HUMAN	MER10 repetitive element;
10854	23375	36394	96.4		2.0E-18 AW 470791.1	EST HUMAN	hs33d06.x1 NCi_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2875499 3' similar to contains THR.b3 THR repetitive element;
	1						

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	İ				8		القائد المصر المراجعة
Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
11579	24025	37093	5.24		AW151299.1	EST_HUMAN	xg47e09.x1 NCI_CGAP_Ut1 Homo sapiens cDNA clone IMAGE:2630728 3' similar to contains MER8.b2 MER8 repetitive element ;
11970	13793		20.18		2.0E-18 BE256097.1	EST_HUMAN	601114352F1 NIH_MGC_16 Hama sapiens cDNA clone IMAGE:3355044 51
1037	1300		200			TANK IN THE	ye43g05.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:120536 5' similar to contains
4307	18100	30808	10.0			EST HOMAN	AVESSADS GLIC Homo saniens citiNA clone GLICDKF113'
275	10130				1	בין	Announce of the state of the st
5750	18384					L L	Homo sarions mRNA for Na K.A Thasa alpha-submit complete cds
3 3	3	۱			,	N E	Train adjusts his variant 24 comment HEALTONDA
6582	19180	31980	1.37		1.0E-18 AL163280.2	Z	Hamo sapiens chromosome 21 segment HSZI CUSU
8380	20820	33840	1.22		1.0E-18 AI148288.1	EST_HUMAN	oz69409.x1 Soares_senescent_fibroblasts_NbHSF Homo sapiens cDNA clone IMAGE:1680593 3' similar to contains L1.t1 L1 repetitive element ;
9813	22311	35293	4.45		1.0E-18 U91328.1	L'N	Human hereditary haemochromatosis region, histone ZA-like proten gene, hereditary haemochromatosis (HLA-H) gene, RoRet gene, and sodium phosphate transporter (NPT3) gene, complete cds
11918	24255	31011	4.39		1.0E-18 AF003529.1	IN	Homo sapiens glypican 3 (GPC3) gene, partial cds and flanking repeat regions
							z11d06.r1 NOL_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:712811 5' similar to contains MER19.t2
571	13202	25684	3.33		9.0E-19 AA281961.1	EST_HUMAN	MER19 repetitive element
	00007				1 1001004	140741111 1400	z11006.r1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:712811 5' similar to contains MER19.t2 MER19.to
2/2	20251	70007			9.0E-19 AAZO1901.1	EST HIMAN	MEN 19 reporting deficient. HSC23F051 normalized infant brain cDNA Homo saniens cDNA clone c-23f05
200	24464	24076	AA C		0.0E-10 Al 163203 7	LA LA	Home capians chromosome 21 section HS210003
2700	24484				9.0E-19 AL 18203.4		Homo caniene chromosome 21 septement HS210003
11007	23521				9.0E-19 AB032969.1	L'N	Homo sapiens mRNA for KIAA1143 protein, partial cds
							z11d06.r1 NCI_CGAP_GCB1 Home sapiens cDNA clone IMAGE:712811 5' similar to contains MER19.t2
11678		25684	28.32		19 AA281961.1	EST_HUMAN	MER19 repetitive element;
1086	13691		1.38		8.0E-19 AW974902.1	EST_HUMAN	EST387007 MAGE resequences, MAGN Hamo sapiens cDNA
8090	20631	33544	1	8.0E-19	8.0E-19 BE158936.1	EST_HUMAN	MR0-HT0404-210200-001-g06 HT0404 Homo sapiens cDNA
7387	14861	9743E	172	7 0F-10	TN 958139 NT	Ę	Homo saniens DEAD/H (Asp-Glu-Ale-Asp/His) box polynebide 6 (RNA helicase, 54kD) (DDX6) mRNA
6584	19182			L	AF09209	Ł	Rattus norvegicus cp151 mRNA, partial cds
734	19868				7.0E-19 P26444	SWISSPROT	BETA CRYSTALLIN A2
9925	22421	35395	0.47	L	7.0E-19 AI344951.1	EST_HUMAN	tb01c08.x1 NCI_CGAP_Lu26 Homo sepiens cDNA clone IMAGE:2052302 3'
11823	L		2.85		7.0E-19 AA705684.1	EST_HUMAN	zi60b01.s1 Soares_fetai_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:435145 3'
3847	16446		1.21	Ш	6.0E-19 AW852930.1	EST_HUMAN	PM0-CT0248-131099-001-g01 CT0248 Homo sapiens cDNA

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Probe SEQ ID S NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
2209	14785	27359	1.46	1.0	E-19 H30795,1	EST_HUMAN	yo79g07.r1 Soares adult brain N2b4HB55Y Homo sapiens cDNA clone IMAGE:184188 5' similar to contains MER10 repetitive element;
2743	15298		2.18	1.0	DE-19 D38044.1	TN	Human gene for Ah-receptor, exon 7-9
2873	15491		66.3	1.0E-19	TN 268977	LN	Homo sapiens protein tyrosine phosphatase, non-receptor type substrate 1 (PTPNS1) mRNA
3448	16055	28531	1.37	1.0E-19	E-19 AA834967.1	EST_HUMAN	aj49b12.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1393631 3' similar to contains MER37.t2 MER37 repetitive element ;
6322	17884		2.47	1.0	E-19 AW117377.1	EST HUMAN	xd88h10.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2604739 3' similar to contains L1.b2 L1 L1 repetitive element;
6225	18834	31607	3.54	1.0E-19	1.0E-19 U12186.1	LΝ	Oryctolagus cuniculus sodium/dicarboxylate cotransporter mRNA, partial cds
6358	25115		0.74		1.0E-19 AA595527.1	EST_HUMAN	nh22d03.s1 NC_CGAP_Pr1 Homo sapiens cDNA clone IMAGE:953093 similar to contains L1.t1 L1 repetitive element;
7624	20137	33015			1.0E-19 U08813.1	L	Oryctolagus cuniculus Na+/glucose cotransporter-related protein mRNA, complete cds
7624	20137	33016		1.0	E-19 U08813.1	F	Oryctolagus cuniculus Na+/glucose cotransporter-related protein mRNA, complete cds
8387	20927	33847	1.79	1.0	E-19 M64657.1	۲	Rabbit phosphorylase kinase beta subunit mRNA, complete cds
8678	24245		87 6		1 0E-10 T00020 1	ENT HUMAN	ye72b02.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:123243 5' similar to contains OFR renefitive element
10090	22585	35578			1.0E-19 AW812259.1	EST HUMAN	RC0-ST0174-191099-031-b05 ST0174 Homo sapiens cDNA
$oldsymbol{ol}}}}}}}}}}}}}}}}}}}$	22594	35587	1.69	1.0E-19	DE-19 N44831.1	EST_HUMAN	yy31e09.r1 Soares melanocyte 2NbHM Homo sapiens cDNA clone IMAGE:272872 5'
11353	23807		2.24	1.0	E-19 AW023137.1	EST_HUMAN	df49h01.y1 Morton Fetal Cochlea Homo sapiens cDNA clone IMAGE:2487000 5'
11594	24037	37106	1.84	1.0E-19	E-19 U93163.1	F	Homo sapiens MAGE-B2 (MAGE-B2), MAGE-B3 (MAGE-B3), MAGE-B4 (MAGE-B4), and MAGE-B1 (MAGE-B1) genes, complete cds
6754	19347	32155	2.39	8.0E-20	1827286 NT	N T	Mus musculus keratin-associated protein 9-1 (Krtap9-1), mRNA
6754	19347	32156	2.39	8.0E-20	7857286 NT	N	Mus musculus keratin-associated protein 9-1 (Krlap9-1), mRNA
7527	20047	32917	1.4		8.0E-20 A1221371.1	EST_HUMAN	qg86f09.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1842089 3'
7527	20047	32918	1.4		8.0E-20 AI221371.1	EST_HUMAN	qg86f09.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1842089 3'
3314	15924	28402	0.78			EST_HUMAN	PM4-AN0096-050900-003-e04 AN0096 Hano sapiens cDNA
7068	18087	30443	5.61	7.0E-20	E-20 AL 138120.1	EST_HUMAN	DKFZp547D092_r1 547 (synonym: hfbr1) Homo sapiens cDNA clone DKFZp547D092 5'
8433	20973	33887	9.45	0.2	F-20 AA557857 1	FST HUMAN	In/46c04.s1 NCI_CGAP_P14 Home sapiens cDNA clone IMAGE:1043718 similar to contains MER29.b2 MER29 repetitive element:
8433	20073	1		,	7 0E-20 44557857 1	EQT HUMAN	n46c04.s1 NCL_CGAP_Pr4 Homo sapiens cDNA clone IMAGE:1043718 similar to contains MER29.b2 MER26 reposition element:
11581	24008				6912833 NT	N	Homo sabiens ribosomal protein 113a (RPI 13A) mRNA
3811	18214	28694		9.0	E-20 P39188	SWISSPROT	ALU SUBFAMILY J SEQUENCE CONTAMINATION WARNING ENTRY
4359	16946	29388	4	6.0E-20	DE-20 BE622434.1	EST_HUMAN	601441231F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3916231 5'

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	Top Hit Descriptor	3TA01 5'	apiens cDNA clone HA0250	2h78d08.s1 Soares_fetal_liver_splean_1NFLS_S1 Homo sapiens cDNA clone IMAGE:418191 3' similar to contains MER30.t1 MER30 repetitive element;	2h78d08.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:418191 3' similar to		olens cUNA				A clone IMAGE:2293398 3'	iens cDNA			olete ods	zk36b12.s1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:484895 3' similar to			clone IMAGE:4064343 5'	RETROVIRUS-RELATED POL POLYPROTEIN (CONTAINS: REVERSE TRANSCRIPTASE ; ENDONUCLEASE)	qi70d02.x1 NCI_CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1864803 3' similar to contains Alu repetitive		qi70d02.x1 NCI_CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1864803 3' similar to contains Alu repetitive		clone IMAGE:3915522 5'	xx24e10.x1 NCI_CGAP_Ut4 Homo sapiens cDNA done IMAGE:2761098 3' similar to SW:RS5_MOUSE P97481 40S RIBOSOMAL PROTEIN S5.;	ng69h09.s1 NCI_CGAP_Lip2 Homo sapiens cDNA clone IMAGE:040087 similar to TR:G1224086 G1224086 ORF2: FUNCTION UNKNOWN.;	ng69h09.s1 NC_CGAP_Lip2 Homo sapiens cDNA clone IMAGE:940097 similar to TR:G1224086 G1224086 ORF2: FUNCTION UNKNOWN.;
Single Exon Plopes Expressed in Petal Liver		AV725123 HTC Homo sapiens cDNA clone HTCBTA01 5'	AF075301 Human fetal liver cDNA library Homo sapiens cDNA clone HA0250	zh 78408.s1 Soares_fetal_liver_spleen_1NFLS contains MER30.t1 MER30 repetitive element	zh78d08.s1 Soares fetal liver spleen_1h	contains MER30.11 MER30 repetitive element	MK3-H 10487-150200-113-g01 H 10487 Homo sapiens cUNA	Mile misculus MMAN A mDNA complete cds	DYDOTUCTION DECTRING BASCOSA	HISTONE HZB C (HZB/C)	2644003.x1 NCI CGAP Ov35 Homo sapiens cDNA clone IMAGE:2293398.3	QV3-DT0043-090200-080-c04 DT0043 Homo saplens cDNA	Human BXP21 gene	OLFACTORY RECEPTOR-LIKE PROTEIN 114	Meriones unguiculatus prestin (Pres) mRNA, complete cds	zk36b12.s1 Scares_pregnant_uterus_Nb	contains L1.t3 L1 repetitive element;	Human DNA, SINE repetitive element	601843561F1 NIH_MGC_54 Homo sapiens cDNA clone IMAGE:4064343 5'	RETROVIRUS-RELATED POL POLYPR ENDONUCLEASE]	aj70402.x1 NCI_CGAP_Kid3 Homo saple	element;	aj70d02.x1 NCI_CGAP_Kld3 Homo sapie	element;	601514180F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3915522 5'	x24e10.x1 NCI_CGAP_Ut4 Homo sapiens P97461 40S RIBOSOMAL PROTEIN S5.	ng69h09.s1 NCI_CGAP_Lip2 Homo saplens G1224086 ORF2: FUNCTION UNKNOWN.	ng69h09.s1 NCI_CGAP_Lip2 Homo sapiens G1224086 ORF2: FUNCTION UNKNOWN.
EXON PIODES	Top Hit Database Source	EST_HUMAN	EST_HUMAN	EST HUMAN		EST HUMAN	EST HUMAN	- - - - - - - - -	TO 00001410	SWISSPROT	EST HUMAN	EST HUMAN	LN	SWISSPROT	Z		EST_HUMAN	L	EST_HUMAN	SWISSPROT		EST_HUMAN		EST_HUMAN	EST_HUMAN	EST_HUMAN	EST HUMAN	EST_HUMAN
eigijie	Top Hit Acession No.	E-20 AV725123.1	E-20 AF075301.1	E-20 W90525.1		E-20 W90525.1	5.0E-20 BE165980.1	T		099880	E-20 AI874352.1	E-20 AW 937469 1	E-20 U03888.1	E-20 P23273	E-20 AF230376.1				3.0E-20 BF185264.1	E-20 P11369		E-20 AI284244.1		E-20 AI284244.1	DE-20 BE888422.1	E-20 AW303868.1	E-20 AA516335.1	E-20 AA516335.1
	Most Similar (Top) Hit BLAST E	5.0E-20	5.0E-20	5.0E-20		5.0E-20	5.0E-20	2000	20.00	4 0E-20 O99880	4.0E-20	4.0E-20	3.0E-20	3.0E-20	3.0E-20		3.0E-20	3.0E-20	3.0E-20	3.0E-20		3.0E-20		3.0E-20	3.0E-20	2.0E-20	2.0E-20	2.0E-20
	Expression Signal	1.11	1.33	4.79		8/1	0.79	1 53	200	0.00	5.58	1.36	1.11	1.49	29.0		0.93	2.94	0.82	1.84		2.42		2.42	17.42	23.08	2.92	2.92
	ORF SEQ ID NO:		32548	33336			33496					35882	27330	28323	29436		29755		35708			36902		36903	31039		26262	26263
	Exan SEQ ID NO:	17282	19701	20428		27428	20269	2420		1	1	22887	14760	16874	16993		- 1		22718	23080		23839		23839	24202	13478	13753	13753
	Probe SEQ ID NO:	4700	7169	7886		8 5	804/	97g	90.00	5830	7866	10393	2184	4288	4408		4731	8865	10223	10543		11387		11387	11839	863	1150	1150

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	Top Hit Descriptor	x24e10.x1 NCI_CGAP_Ut4 Homo sapiens cDNA clone IMAGE:2781088 3' similar to SW:RS5_MOUSE P97461 40S RIBOSOMAL PROTEIN S5. :	ZONADHESIN PRECURSOR	ZONADHESIN PRECURSOR	Homo sapiens malate dehydrogenase 1, NAD (soluble) (MDH1) mRNA	EST180326 Liver III Homo sapiens cDNA 5' end	Homo sapiens RGH1 gene, retrovirus-like element	Homo sapiens RGH1 gene, retrov/rus-like element	oe35b08.s1 NCI_CGAP_GCB1 Homo sepiens cDNA clone IMAGE:1306935 3' similar to contains MER4.b2 MER4 repetitive etement;	oe35b08.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone INAGE:1306935 3' similar to contains MER4.b2 MFR4.com	CHR220310 Chromosome 22 exon Homo saplens cDNA clone C22 391 5'	211406.11 NCI_CGAP_GCB1 Homo saplens cDNA done IMAGE.7128115' similar to contains MER19.12	MER19 repetitive element;	hr84b08.x1 NCI_CGAP_Kld11 Homo sapiens cDNA clone IMAGE:3135155.3' similar to contains L1.t2 L1 repetitive element:	AF049567 Human activated dendritic cell mRNA Homo sapiens cDNA clone GA05	Homo sapiens Autosomal Highly Conserved Protein (AHCP), mRNA	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced	nc60g08.r1 NCI_CGAP_Pr1 Hamo saplens cDNA clone IMAGE:745694 similar to contains L1.t3 L1	RC3-NN0068-090500-021-b03 NN0068 Homo sapiens cDNA	bb30a02.y1 NIH_MGC_10 Hamo saplens cDNA clone IMAGE;2884714 5' similar to SW:NIAM_HUMAN COS489 NATH-HIRD INCOME OXIDABED ICTASE AS IN SIDINIT BECKLISCED.	ob7106.51 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1336835.3	ATP SYNTHASE A CHAIN (PROTEIN 8)	LAMININ BETA-2 CHAIN PRECURSOR (S-LAMININ) (LAMININ CHAIN B3)	LAMININ BETA-2 CHAIN PRECURSOR (S-LAMININ) (LAMININ CHAIN B3)	Homo sapiens chromosome 21 segment HS21C100	Zk67a06.r1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:487858 5'	Hamo sapiens chromosome 21 segment HS21C018
	Top Hit Database Source	EST_HUMAN F	SWISSPROT	SWISSPROT		EST_HUMAN E	NT .	١	EST HUMAN	ENT HIMAN	T		EST_HUMAN N	EST HUMAN	1		N.	TO TO THE	T	Π	Т	1	SWISSPROT	SWISSPROT		EST_HUMAN 2	П
O.B.	Top Hit Acession No.	2.0E-20 AW303868.1	228983	228983	5174538 NT	2.0E-20 AA309457.1			2.0E-20 AA766755.1	2 0E-20 AA766755 1	455371.1		1.0E-20 AA281961.1	1.0E-20 BF115158,1		11418491 NT	1.0E-20 AF223391.1	1 OF.30 66430453 1	9.0E-21 AW 898189.1	8 OF-21 AW674801 1	8.0E-21 AA809411.1	521330	215800	515800			7.0E-21 AL163218.2
	Most Similar (Top) Hit BLAST E Value	2.0E-20	2.0E-20 Q28983	2.0E-20 Q28983	2.0E-20	2.0E-20 /	2.0E-20 D10083.1	2.0E-20 D10083.1	2.0E-20	0 OE-30	2.0E-20 H55371.1		1.0E-20	1.0E-20	1.0E-20/	1.0E-20	1.0E-20	4 OF-30	9.0E-21	A 0F-21	8.0E-21	8.0E-21 O21330	7.0E-21 P15800	7.0E-21 P15800	7.0E-21	7.0E-21	7.0E-21
	Expression Signal	16.26	4.35	4.35	1.43	0.97	5.33	5.33	1.76	1 76	2.84		3.02	1.18	0.72	2.48	3.02	9, 9	3.9	1.17	8.4	5.02	1.61	1.61	0.59	4.31	0.79
	ORF SEQ ID NO:		30094	30095		33514	34595	34596	37128		30789		27211	29563	32376	34562	36943				36925		27258	27259			31960
	Exon SEQ ID NO:	13478	17654	17654			21654	21654	24064		24809	I _	15396	17117	19551	21626	23878	24286	1	21285	23864	24212			1	16928	19162
	Probe SEQ ID NO:	2843	5081	5081	5328	8061	9118	9118	11622	11622	12236		2058	4533	6975	0606	11427	11066	11681	8748	11413	11852	2113	2113	3764	4341	6564

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WO 01/57277

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	Top Hit Descriptor	Homo sapiens dNT-2 gene for mitochondrial 5'(3')-deoxyribonucleotidase (dNT-2 gene), exons 1-5	Human chromosomal protein HMG1 related gene	RC0-CT0301-271199-031-F03 CT0301 Hamo sapiens cDNA	2g73d03.s1 Soares, fetal, heart, NbHH19W Homo sapiens cDNA clone IMAGE:398981 3' similar to gb:M14338 VITAMIN K-DEPENDENT PROTEIN S PRECURSOR (HUMAN);contains THR:33 OFR resettive element:	Homo sapiens PTD013 protein (PTD013), mRNA	601304125F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3638310 5'	PM1-HT0454-080100-002-h09 HT0454 Hamo sapiens cDNA	Hamo sapiens protein tyrosine phosphatase, non-receptor type 21 (PTPN21), mRNA	601649871F1 NIH_MGC_74 Homo sapiens cDNA clone IMAGE:3833880 5'	Homo sapiens melanoma antigen, family C, 1 (MAGEC1), mRNA	he05e10.x1 NCI_CGAP_CML1 Homo sapiens cDNA clone IMAGE:2918154 3'	7f83d11,x1 NCI_CGAP_Pr28 Homo sapiens cDNA clone IMAGE:3303573 3' similar to contains OFR.t1 OFR repetitive element :	ZINC FINGER PROTEIN GL(1 (GL-1)	ZINC FINGER PROTEIN GLI1 (GLI-1)	Z72c04.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE.727878 5	oo86e08.s1 NCI_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1573094 3' similar to TR:Q16530 Q16530 PMS3 MRNA ;contains OFR.t1 OFR repetitive element:	Rattus norvegicus mRNA for rTIM, complete cds	Human hereditary haemochromatosis region, histone 2A-like protein gene, hereditary haemochromatosis (HLA-H) gene, RoRet gene, and sodium phosphate transporter (NPT3) gene, complete cds	zq15d06.s1 Stratagene fetal retina 937202 Homo sapiens cDNA clone IMAGE:629771 3'	Homo sapiens chromosome 21 segment HS21C001	Homo sapiens LGMD2B gene	Homo sapiens dNT-2 gene for mitochondrial 5(3)-deoxyribonucleotidase (dNT-2 gene), exons 1-5	Homo sapiens dNT-2 gene for mitochondrial 5'(3')-deoxyribonucleotidase (dNT-2 gene), exons 1-5	AV661044 GLC Hamo saplens cDNA clone GLCGOA10 3'	801844485F1 NIH_MGC_54 Homo septens cDNA clone IMAGE:40649455'
	Top Hit Database Source	LN	۲N	EST_HUMAN	NAMUH TSE	L	EST_HUMAN	EST_HUMAN	LN	EST_HUMAN	NT	EST_HUMAN	EST HUMAN	SWISSPROT	SWISSPROT	EST_HUMAN	EST_HUMAN	LN	. LN	EST_HUMAN	NT	NT	NT	Ā	EST_HUMAN	EST_HUMAN
6	Top Hit Acession No.	0E-21 AJ277567.1	0E-21 D14718.1	0E-21 AW856922.1	0E-21 AA723404 1	7706668 NT	BE408611.1	BE162737.1	5.0E-21 5902031 NT	BE96839.1	4885474 NT	0E-21 AW 440864.1	0E-21 BE856505.1	291690	291690	0E-21 AA393574.1	0E-21 AA970713.1	0E-21 AB019576.1	0E-21 U91328.1	3.0E-21 AA218891.1	3.0E-21 AL163201.2	0E-21 AJ007973.1	0E-21 AJ277557.1	0E-21 AJ277557.1	3.0E-21 AV661044.1	.0E-21 BF184739.1
	Most Similar (Top) Hit BLAST E Value	7.0E-21	7.0E-21	7.0E-21	7.0E-21	7.0E-21	6.0E-21	6.0E-21	5.0E-21	5.0E-21	5.0E-21	5.0E-21	5.0E-21	5.0E-21	5.0E-21 Q91690	5.0E-21	4.0E-21	4.0E-21	4.0E-21	3.0E-21	3.0E-21	3.0E-21	3.0E-21	3.0E-21	3.0E-21	3.0E-21
	Expression Signal	1.47	10.47	0.73	3.16	<u>4</u>	0.89	0.58	0.82	3.12	5.67	0.83	-	0.79	0.79	1.49	1.24	3.04	0.61	5.92	1.2	3.35	0.97	0.97	0.75	60.27
	ORF SEQ ID NO:	33791		35512	36123	36697	29219		26087	29482	29948		32496	35970	35971		26904	32355	35167	27020	27460	28200	30816	30817		
	Exon SEQ ID NO:	20868	ĺ	22517	23110	23655	16770	21600	13571	17039	17497	19594	19657	ſ	1		14359	19530	22194	14463	14885	15730	18317	18317		18932
	Probe SEQ ID NO:	8327	8610	10022	10575	11147	4179	9063	986	4453	4922	0989	7086	10466	10466	11768	1769	6953	9695	1877	2313	3116	5691	5691	5913	6328

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t294803.X1 NOL CGAP. Kid11 Homo sapiens cDNA clone IMAGE:2296204.3' similar to TR:Q15408 Q15408 NEUTRAL PROTEASE LARGE SUBUNIT ; 109g01.x1 NCI_CGAP_Kid13 Homo sapiens cDNA clone IMAGE:3146256 3' similar to contains MER29.b3 ts30f03.x1 NCI_CGAP_Pan1 Homo sapiens cDNA clone INAGE:2230109 3' similar to TR:Q99954 Q99954 HYPOTHETICAL 51.1 KD PROTEIN ; DKFZp43410830_r1 434 (synonym: Mes3) Homo sapiens cDNA clone DKFZp43410830 5' ag47e05.x7 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1838336 3' similar to gb:M84241 QM PROTEIN (HUMAN); Homo sapiens putative 8-hydroxyguenine DNA glycosylase gene, complete cds n46c04 s1 NCI_CGAP_P14 Homo sapiens cDNA clone INAGE:1043718 similar to contains MER29.b2 ze97a12.r1 Soares_fetal_heart_NbHH19W Homo sapiens cDNA clone IMAGE.366910 5' QV0-HT0103-091199-050-g11 HT0103 Homo sapiens cDNA zs97a12.r1 Soares, fetal, heart, NbHH19W Homo sapiens cDNA clone IMAGE:366910 5' Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA ar88412.x1 Barstead cdon HPLRB7 Homo sapens cDNA clone IMAGE:2152343 3* LINE:1 REVERSE TRANSCRIPTASE HOMOLOG MER29 repetitive element ; 601680636F1 NIH_MGC_83 Homo sapiens cDNA cione IMAGE:3951008 5' 601680636F1 NIH_MGC_83 Homo sapiens cDNA cione IMAGE:3951008 5' AU136779 PLACE1 Homo sapiens cDNA clone PLACE1005052 **Fop Hit Descriptor** CM1-NN0063-280400-203-h08 NN0063 Homo sapiens cDNA Homo sapiens chromosome 21 segment HS21C013 QV3-HT0458-170200-090-912 HT0458 Homo sapiens cDNA RC1-OT0083-100800-019-g08 OT0083 Homo sapiens cDNA RC4-BT0311-141199-011-h06 BT0311 Homo sapiens cDNA Homo sapiens chromosome 21 segment HS210001 Homo sapiens chromosome 21 segment HS210001 AV761874 MDS Homo sapiens cDNA clane MDSCCG05 5' Homo sapiens mRNA for KIAA0397 protein, partial cds Homo sapiens mRNA for KIAA0397 protein, partial cds Homo sapiens chromosome Xp22 410-8 Single Exon Probes Expressed in Fetal Liver ZONADHESIN PRECURSOR ZONADHESIN PRECURSOR MER29 repetitive element; EST HUMAN EST HUMAN EST HUMAN EST HUMAN EST_HUMAN SWISSPROT EST HUMAN EST_HUMAN SWISSPROT HUMAN EST_HUMAN EST_HUMAN EST_HUMAN EST_HUMAN EST HUMAN EST_HUMAN EST_HUMAN EST_HUMAN Top Hit Database SWISSPROT Source N EST E ż 'n Top Hit Acession 3.0E-21 AW897760.1 3.0E-21 AL163213.2 2.0E-21 BE163247.1 2.0E-21 AB007857.2 2.0E-21 AB007857.2 9.0E-22 AL163201.2 9.0E-22 AL163201.2 9.0E-22 AV761874.1 2.0E-21 AA027211.1 2.0E-21 AA027211.1 2.0E-21 BE064410.1 2.0E-21 BE350127.1 2.0E-21 BE973829.1 2.0E-21 BE973829.1 2.0E-21 AF176815.1 2.0E-21 BE141785.1 1.0E-21 P08548 1.0E-21 AL079752.1 2.0E-21 AU136779. AA557657.1 AI601264.1 1.0E-21 AI223104.1 AF046133 ģ 2.0E-21 AI624582.1 2.0E-21 Q28983 2.0E-21 Q28983 1.0E-21 1.0E-21 1.0E-21 .0E-21 (Top) Hit BLAST E Value 2.76 2.75 2.45 4.56 0.91 10.78 1.54 3.58 4 2.46 96.0 5.08 3.84 14.37 2.7 Expression Signal 29534 33998 33999 36215 27795 31103 34216 36754 36755 26415 30366 32629 26093 30784 33768 32287 35071 30617 26094 ORF SEQ Ö 22109 25013 23704 13892 19772 17084 21079 23202 19469 15223 18302 23454 14040 17955 SEQ ID 13581 13853 15223 20845 13581 18391 22971 Probe SEQ ID 8540 10670 12359 5765 5785 1448 10477 1256 2665 2665 8304 10937 11199 11189 1298 7243 4500 7129 970 970 5675 5397 6613 157 12072

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Single Exon Propes Expressed in Fetal Liver	Top Hit Descriptor	AU140358 PLACE2 Homo sapiens cDNA clone PLACE2000394 5'	CM0-HT0179-281099-076-h05 HT0179 Homo sapiens cDNA	Zk67a06.r1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:487858 5'	Homo sapiens chromosome 21 segment HS21C046	ALPHA-24MACROGLOBULIN PRECURSOR (ALPHA2M)	Homo sapiens gene for activin receptor type IIB, complete cds	Homo sapiens HSPC220 mRNA, complete cds	EST00738 Fetal brain, Stratagene (cat#936206) Homo sapiens cDNA clone HFBCF07	Homo sapiens T cell receptor beta locus, TCRBV7S3A2 to TCRBV12S2 region	wx05g07.x1 NCI_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2542812 3'	Homo sapiens chromosome 21 segment HS21C103	Human dystrophin (DMD) gene, exons 7, 8 and 9, and partial cds	nee27b06.x1 NCI_CGAP_Pr28 Homo sapiens cDNA clone IMAGE:3255898 3' similar to contains Alu	repetitive element;	Homo sapiens Xq pseudoautosomal region; segment 1/2	AV703223 ADB Homo sapiens cDNA clone ADBAUE12 5	Homo saplens chromosome 21 segment HS21C002	601882813F1 NIH_MGC_57 Homo saplens cDNA clone IMAGE:4095434 5	Homo sapiens chromosome 21 segment HS21C009	bn14h10.x1 NCI_CGAP_Co14 Home saplens cDNA clone IMAGE:2156811.3' similar to gb:L19593 HIGH AFFINITY INTERLEUKIN-9 RECEPTOR B (HUMAN);contains L1.f1 repetitive element:	Human chromosomal protein HMG1 related gene	qb28c07.x1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:1697580 3' similar to	contains MER12.t2 MER12 repetitive element;	QV0-HT0368-090200-099-f12 HT0368 Hamo saplens cDNA	RC5-BT0707-150300-021-H10 BT0707 Homo capiens cDNA	R.rattus RY2G5 mRNA for a potential ligand-binding protein	R.rattus RY2G5 mRNA for a potential ligand-binding protein	yx/3d05.s1 Soares melanocyte 2NbHM Homo sapiens cDNA clone IMAGE:267369 3'	IMMEDIATE EARLY GENE 13 PROTEIN PRECURSOR	Homo sapiens protein kinase, AMP-activated, gamma 3 non-catalytic subunit (PRKAG3), mRNA	PM1-ST0282-261199-001-d12 ST0262 Homo sapiens cDNA	2c20f01.r1 Soares_senescent_fibroblests_NbHSF Hamo sapiens cDNA clone IMAGE:322873 5' similar to gb:X72308 MONOCYTE CHEMOTACTIC PROTEIN 3 PRECURSOR (HUMAN);
Exon Propes	Top Hit Database Source	EST_HUMAN	EST_HUMAN	EST_HUMAN	TN.	SWISSPROT	TN	TN	EST_HUMAN	IN	EST_HUMAN	NT	LΝ		EST_HUMAN	NT	EST_HUMAN	IN	EST_HUMAN	LN	EST HUMAN	NT		EST_HUMAN	EST_HUMAN	EST_HUMAN	۱	LN	EST_HUMAN	SWISSPROT	NT	EST_HUMAN	EST_HUMAN
eignic	Top Hit Acession No.	9.0E-22 AU140358.1	8.0E-22 BE144748.1	AA046502.1	7.0E-22 AL163246.2	0E-22 Q61838	.0E-22 AB008681.1	.0E-22 AF151054.1	.0E-22 M78590.1	0E-22 AF009660.1	AW029123.1	5.0E-22 AL 163303.2	0E-22 U60822.1		0E-22 BF476511.1	0E-22 AJ271735.1	0E-22 AV703223.1	.0E-22 AL163202.2	0E-22 BF218030.1	0E-22 AL163209.2	0E-22 Al469679.1	0E-22 D14718.1		0E-22 A1090125.1	3.0E-22 BE158613.1	3.0E-22 BE089841.1	3.0E-22 X60660.1	X60660.1	N24942.1	P24916	8394043 NT	2.0E-22 AW817794.1	0E-22 W39456.1
	Most Similar (Top) Hit BLAST E Value	9.0E-22	8.0E-22	8.0E-22	7.0E-22	7.0E-22	7.0E-22	7.0E-22	7.0E-22	7.0E-22	6.0E-22	5.0E-22	5.0E-22			4.0E-22	4.0E-22	4.0E-22	4.0E-22	4.0E-22	3.0E-22	3.0E-22		3.0E-22	3.0E-22	3.0E-22	3.0E-22	3.0E-22	2.0E-22	2.0E-22	2.0E-22	2.0E-22	2.0E-22
	Expression Signal	3.44	4.19	3.26	5.27	2.55	1.12	1.99	3.39	1.83	2.67	2.82	7.63		2.82	0.83	0.53	3.36	2.85	3.39	86.0	1.44		3.04	1.07	2.55	-	=	2.49	1.61	5.3	1.35	1.95
	ORF SEQ ID NO:	37073			25801	29399	30184			34977		32038	35707				33498		36149					29947		33633		33763		27697	28547	29340	31372
	Exen SEQ ID NO:	24001	13596	20379	13316	16957	17755	21163	21305	22020	20725	19236	22716		24506	16299	20591	25122	23135	24621	13606	16336		17496	20713	20718	20842	20842	14578	15128	16074	16896	24753
	Probe SEO IO NO	11553	984	7837	693	4370	5180	8824	8766	9520	8184	6840	10221		12314	3698	8049	8352	10801	12492	8	3735		4921	8172	8177	8301	8301	1896	2564	3467	4310	6015

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Top Hit Descriptor	RC0-TN0079-150900-025-h12 TN0079 Hamo sapiens cDNA	q/78h06.x1 Soeres_NhHMPu_S1 Homo sapiens cDNA clone IMAGE:1878299 3' similar to contains MER29.t3 MER29 repetitive element;	nv04h11.s1 NCI_CCAP_Pr22 Homo sapiens cDNA clone IMAGE:1219269 3'	m04h11.s1 NCI_CGAP_Pr22 Homo sapiens cDNA clone IMAGE:12192693'	ha24f04.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2874655 3'	Homo sapiens chromosome 21 segment HS21C080	PM4-SN0020-010400-009-h02 SN0020 Hamo sapiens cDNA	Human familial Alzheimer's disease (STM2) gene, complete cds	Human DNA, SINE repetitive element	MRo-BT0659-220200-002-h07 BT0659 Homo sapiens cDNA	qz09b07.x1 NCI_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:2020981 3' similar to contains MER29.b2 MER29 repetitive element;	qz09b07.x1 NCI_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:2020981 3' similar to contains MER29.b2	MER29 repetitive element;	IL2-UM0076-070400-061-F11 UM0076 Home sapiens cDNA	Gallus gallus Dach2 protein (Dach2) mRNA, complete cds	AV647246 GLC Homo sapiens cDNA clone GLCAWC07 3'	Homo sapiens Not56 (D. melanogaster)-like protein (NOT56L) mRNA	Rattus norvegicus RIM1B (Rim1B) mRNA, complete cds	Homo sapiens chromosome 21 segment HS210049	Homo sapiens mannosidase, beta A, Iysosomal (WANBA) gene, and ubiquitin-conjugating enzyme E2D 3 (UBE2D3) genes, complete cds	Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3	(UBE2D3) genes, complete cds	qg59c03.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1839460 3' similar to	SW:MV10_MOUSE P23249 PROTEIN MOV-10.;	Homo sapiens chromosome Xq28 melanoma antigen family A2a (MAGEA2A), melanoma antigen family A12	(MAGEA12), melanoma antigen family A2b (MAGEA2B), melanoma antigen family A3 (MAGEA3), caltractin	(CALT), NAD(P)H dehydrogenase-like protein (NSDHL), and LI>	Pongo pygmaeus offactory receptor (PPY116) gene, partial cds	Pongo pygmæeus olfactory receptor (PPY116) gene, partial cds	QV3-CT0194-031199-004-f08 CT0194 Homo sapiens cDNA	Homo sapiens chromosome 21 segment HS21C027
Top Hit Database Source	EST HUMAN		Г	Г	Г	L	EST_HUMAN	± LN	- L	EST_HUMAN IN	EST HUMAN	Т	EST_HUMAN IN	EST_HUMAN		EST_HUMAN /		NT	- LN	Ł) NT		EST_HUMAN						T_HUMAN	П
Top Hit Acession No.	-22 BF092116.1					2.0E-22 AL163280.2	-22 AW865517.1	3-22 U50871.1	E-22 D14547.1	1.0E-22 BE084667.1	1.0E-22 AI365435.1		E-22 AI365435.1	1	8.0E-23 AF198349.1	E-23 AV647246.1	5031952 NT		6.0E-23 AL163249.2			E-23 AF224669.1		6.0E-23 A/209130.1							E-23 AL 163227.2
Most Similar (Top) Hit BLAST E Value	2.0E-22	2.0E-22	2.0E-22	2.0E-22	2.0E-22	2.0E-22	1.0E-22	1.0E-22	1.0E-22	1.0E-22	1.0E-22		1.0E-22	9.0E-23	8.0E-23	7.0E-23	7.0E-23	6.0E-23	6.0E-23	6.0E-23		6.0E-23 /		6.0E-23 /				5.0E-23 /	5.0E-23 /	3.0E-23	3.0E-23
Expression Signal	3.3	1.59	69'0	69.0	2.33	2.57	1.59	1.88	1.45	1.29	0.84		0.84	12.67	0.64	2.37	4.4	1.63	1.1	3.44		3.44		4.29			5.78	3.88	3.02	0.92	1.01
ORF SEQ ID NO:	31706	35082	35182	35183		30886	27063	27748		33120	35950		35951		28707		36458		29384	31026		31027		30985							31963
Exon SEQ ID NO:	18930	22119	22210	22210	24038	24605	14508	15182	16064	20231	22940	<u> </u>	22940		16232	15960	23437	16087	16942	24173		24173		24300			18264	_ [19167
Probe SEQ ID NO:	6324	9619	9712	9712	11595	11644	1921	2620	3457	7723	10446		10446	12540	3629	3352	10918	3481	4355	11790		11790		1990			5635	9386	7463	5375	8288

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I					,		
	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
6569	19167	31964	1.01	3.0E-23	E-23 AL 163227.2	LN⊤	Homo sapiens chromosome 21 segment HS21C027
7780		33228	4.27	3.0E-23	3.0E-23 AA130166.1	EST_HUMAN	233g09.r1 Scares_pregnant_ulerus_NbHPU Homo sapiens cDNA clone IMAGE:503968 5' similar to contains MER29.t2 MER29 t2 MeR29 epetitive element :
9173		34694		3.0E-23	Z70664.1	LN	Human endogenous retroviral element HC2
9173				3.0E-23	270664.1	ΤN	Human endogenous retroviral element HC2
10219	22714		1.23	3.0E-23	3.0E-23 AW897927.1	EST_HUMAN	RC3-NN0066-270400-011-h01 NN0066 Homo sapiens cDNA
							Homo sapiens cytochrome P450 polypeptide 43 (CYP3A43) gene, partial cds; cytochrome P450 polypeptide
10989	23503		1.54	3.0E-23	AF280107.1	K	4 (CYP3A4) and cytochrome P450 potypeptide 7 (CYP3A7) genes, complete cds, and cytochrome P450 potypeptide 5 (CYP3A5) gene, partial cds
694	13317	25802	3.65	2.0E-23	2.0E-23 AJ289880.1	LZ	Homo sepiens KIAA0851 gene (partial), XT3 gene and LZTFL1 gene
1182	15391		4.01	2.0E-23	M55270.1	LN	Human matrix Gla protein (MGP) gene, complete cds
2821	15373		1.47	2.0E-23	P22105	SWISSPROT	TENASCIN-X PRECURSOR (TN-X) (HEXABRACHION-LIKE)
2821	15373	27943	1.47	2.0E-23	2.0E-23 P22105	SWISSPROT	TENASCIN-X PRECURSOR (TN-X) (HEXABRACHION-LIKE)
2440	9000		90.7	200	10014	144841111 FOR	49/3/11/x1 NCL_CGAP_Pr28 Homo septems cDNA clone IMAGE:1943/57 3' similar to TR:Q13537 Q13537 A15537
21.0	0200		00.1	2.0E-23	2.0E-23 AIZU1430.1	1	WIENCY INVANCE CHEMIEN : COMPLETE CONSENSOS SECUENCE.
B/S	8/8/8		3.93	2.05-23	2.0E-23 BE165980.1	FOT HUMAN	Wits-in U467-130ZCU-113-gU1 in U467 namo sapiens cunA
940	1004	20112		2.0E-23	113990 L.	NAME TO P	y coest a comparation spiral investment of the major control of the coest of the co
\$	2 2 2 2 3			2.0E-23	H38931.1	ES L'HUMAN	Y 10802. It sources retail liver spiecen 1 NFLS Homo septiens cUNA clone IMAGE: 203418 5
							Homo sepiens cytochrome P450 polypeptide 43 (CYP3A43) gene, partial cds; cytochrome P450 polypeptide 4 (CYP3A4) and cytochrome P450 polypeptide 7 (CYP3A7) genes, complete cds; and cytochrome P450 polypeptide 2 (CYP3A7) genes, complete cds; and cytochrome P450
7814	20357		4.59	2.0E-23	2.0E-23 AF280107.1	N	polypeptide 5 (CYP3A5) gene, partial cds
8777	21318	34238	1.05	2.0E-23	2.0E-23 AL 163303.2	NT	Homo sapiens chromosome 21 segment HS21C103
11772	24161		3.5	2.0E-23	M32658.1	LN⊤	Human alcohol dehydrogenase gamma subunit (ADH3) gene, exon 1
12328	24512		4.44	2.0E-23	AF009660.1	NT	Homo sapiens T cell receptor beta locus, TCRBV7S3A2 to TCRBV12S2 region
12454	25017		1.35	2.0E-23	AU133931.1	EST HUMAN	AU133931 OVARC1 Homo saplens cDNA clone OVARC1000946 5
4627	17210	29860	1.72	1.0E-23	E-23 AL 183252.2	NT	Homo sepiens chromosome 21 segment HS21C052
4881	17456		5.35	1.0E-23	E-23 AL183210.2	LΝ	Homo sapiens chromosome 21 segment HS21C010
6821	19411		4.93	1.0E-23	E-23 BE378471.1	EST HUMAN	601236455F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3608653 5'
							zw82c06.r1 Soares_testis_NHT Homo saplens cDNA clone IMAGE:782698 5' similar to contains PTR5.t2
8297	20838	33759	4.53	1.0E-23	E-23 AA448097.1	EST_HUMAN	PTR5 repetitive element;
578	13208		1.48	9.0E-24	E-24 AA663213.1	EST HUMAN	ab75a08.s1 Stratagene fetal retina 937202 Homo sapiens cDNA clone IMAGE:852758 3' similar to TR:E19822 E19822 CA PROTEIN :
4753	17334	29777	1.16	8.0E-24	P23269	SWISSPROT	OLFACTORY RECEPTOR-LIKE PROTEIN IS
4753	17334	29778	1,18	8.0E-24 P23269	P23269	SWISSPROT	OLFACTORY RECEPTOR-LIKE PROTEIN 13

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					. D		
	Exon SEQ ID NO:	oR ₀	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
6576	19174	31973	1.06		11422227 NT	TN	Homo sapiens capping protein (actin filament) muscle Z-line, alpha 2 (CAPZA2), mRNA
3941	16539		1.23		7.0E-24 AW937954.1	EST_HUMAN	QV0-DT0047-170200-122-a06 DT0047 Homo sapiens cDNA
5345	17906		18.11	7.0E-24	-24 AL039498.1	EST_HUMAN	DKFZp434A2311_r1 434 (synonym: htes3) Homo saplens cDNA clone DKFZp434A2311 5
10519	23057		2.8	7.05	-24 AW303317.1	EST HUMAN	xx17703.x1 Soares_NFL_T_GBC_S1 Homo saplens cDNA clone IMAGE:2813405.3' similar to contains Alu repetitive element:contains MER19.2 MER19 recetiive element:
735	1		2.28	90.9		TN	Macaca fuscata mRNA for Testis-Specific Protein Y (TSPY), complete cds
871	13486	26001		6.0E	Γ	LN	Homo sapiens chromosome 21 segment HS21C049
4042	16640			5.0E		TN	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22, segment 3/3
7735	£7606	33134	0.0	7.	24 A F 2 2 3 3 4 1	FX	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively soliced
	1			10.5	7 24000		nn31h05.s1 NCI_CGAP_Gas1 Homo sapiens cDNA clone IMAGE:1085529 3' similar to SW:POL_MLVRK
6087	18703	31451	3.17		-24 AA594178.1	EST_HUMAN	P31795 POL POLYPROTEIN;
8615	21154	34068	1.37	4.0E-24	4.0E-24 AW813711.1	EST_HUMAN	RC3-ST0197-130100-014-f06 ST0197 Homo sapiens cDNA
11059			1.65	4.0E-24	4.0E-24 BE544822.1	EST_HUMAN	601078812F1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3464498 5'
12165	24405	30980	4.77	4.0E-24	4.0E-24 AB029016.1	Ŋ	Homo sapiens mRNA for KIAA1093 protein, partial cds
12428	24611	30889	1.37	4.0E-24	11418318 NT	LN-	Homo saplens G-2 and S-phase expressed 1 (GTSE1), mRNA
							hh68c08.x1 NCI_CGAP_GU1 Homo sapiens cDNA clone IMAGE:2967950 3' similar to contains MER29.b2
8362	20902		2.57	3.0E-24	-24 AW614871.1	EST_HUMAN	MER29 repeditive element ;
8414				3.0		EST_HUMAN	EST374149 MAGE resequences, MAGG Homo sapiens cDNA
9386				30℃	-24 AL163252.2	LN	Homo sapiens chromosome 21 segment HS21C052
12247	24458		2.85	30.E	-24 BF1 27762.1	EST_HUMAN	601810449F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4053396 5'
2384	14953	27525	3.07	2.0E-24	2.0E-24 AA187539.1	EST_HUMAN	2011f09.r1 Strategene fetal retina 937202 Homo sapiens cONA clone IMAGE:609161 5'
3867		Ì		2.0E-24	-24 AW898189.1	EST_HUMAN	RC3-NN0068-090500-021-b03 NN0068 Homo sapiens cDNA
7490				2.0E-24	-24 AF086824.1	LN	Mus musculus rho/rac-interacting citron kinase (Crik) mRNA, complete cds
8675	21214	34135	2.59	2.0E-24	-24 AL119158.1	EST_HUMAN	DKFZp781L1712_r1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp761L1712 5:
							yr92b09.r1 Scares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:212729 5' similar to contains
8712			0.87	2.0E-24	-24 H69214.1	EST_HUMAN	MER28 repetitive element :
9768			0.82	2.0E-24	-24 A1521759.1	EST_HUMAN	ti77a09.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2138008 37
9768		35251		2.0E	-24 AI521759.1	EST_HUMAN	ti77a09.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2138008 3'
12080	25062		13.88	2.0E	-24 M28877.1	IN	Human O family dispersed repeat element
1734		26867	3.18	1.0E-24	7706340 NT	NT	Homo sapiens CGI-127 protein (LOC51646), mRNA
2697				1.0E	4.1	EST_HUMAN	QV0-ST0294-100400-185-c10 ST0294 Homo sapiens cDNA
3055	15671	28147	0.76	1.0E	-24 D86423.1	TN	Mus musculus mRNA for HGT keratin, partial cds
4357	16944		1.97	1.0E-24	-24 AF143313.1	NT	Homo sapiens PTEN (PTEN) gene, exon 2

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					,		
Probe SEQ ID	SEQ ID	ORF SEQ ID NO:	Expression Signal	الا بـ اق	Top Hit Acession No.	Top Hit Database Source	Tap Hit Descriptor
<u> </u>	<u>.</u>			Value			
7551	20070	32946	4.06	1.0E-24	-24 AL163303.2	LΝ	Homo sapiens chromosome 21 segment HS2/1C103
7713	L	33109	9.0	1.0E-24		EST_HUMAN	MR0-HT0166-271199-005-d09 HT0166 Homo sapiens cDNA
7885	1			1.0E-24	-24 AW901164.1	EST_HUMAN	CM0-NN1010-130300-281-d07 NN1010 Homo sapiens cDNA
11545	ı		1.58	9.0E-25	7706707	NT	Homo sapiens putative secreted protein (SIG11), mRNA
5443	i		2.05	8.0E-25	6138972 NT	N F	Homo saplens adrenergic, beta, receptor kinase 2 (ADRBK2), mRNA
6438	L	30440		7 OF-25	25 44483944 1	FST HUMAN	ne92e10.s1 NC_CGAP_Kid1 Homo sapiens cDNA clone IMAGE:911754 similar to contains MER1.b2 MER1 repetitive element :
800	1						ne06a09.s1 NCI_CGAP_Co3 Homo saplens cDNA clone IMAGE:880408 3' similar to contains THR.b2 THR
8160	20701	33616	5.07	7.0E-25	-25 AA468646.1	EST_HUMAN	repetitive element
11647	23995	37067	86.6	7.0E-25	7.0E-25 AA583540.1	EST_HUMAN	nf25h06.s1 NCI_CGAP_Pr1 Homo sapiens cDNA clone IMAGE:914843 similar to SW:R14A_YEAST P36105 PROBABLE 60S RIBOSOMAL PROTEIN L14EA.;
7065		L	4.4	6.0E-25	6.0E-25 W87623.1	EST_HUMAN	zh65h07.r1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:416989 5'
7706		33103	٤		7305360	LZ.	Mus musculus otogelin (Otog), mRNA
11196	L	l			5.0E-25 AW979107.1	EST_HUMAN	EST391217 MAGE resequences, MAGP Homo sapiens cDNA
1496		26628	2.75		4.0E-25 T98107.1	EST_HUMAN	ye56h04.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:121783 5'
3449	16056		3.2		4.0E-25 AW887671.1	EST_HUMAN	PM3-OT0093-280200-001-g07 OT0093 Homo sapiens cDNA
3974	16572	29042	1.42	4.0E-25		NT	Rattus novegicus voltage-gated sodium channel mRNA, complete cds
4407			4.05		BE170957.1	EST_HUMAN	QV3-HT0543-140400-149-e11 HT0543 Homo saplens cDNA
3362		28447	3.73	3.0E-25		LN	Homo sapiens hypothetical protein FLJ20344 (FLJ20344), mRNA
3362	L				8923321 NT	TN	Homo sapiens hypothetical protein FLJ20344 (FLJ20344), mRNA
5022					3.0E-25 P29622	SWISSPROT	KALLISTATIN PRECURSOR (KALLIKREIN INHIBITOR) (PROTEASE INHIBITOR 4)
6728	<u> </u>				3.0E-25 AA603590.1	EST_HUMAN	np27b02.s1 NCI_CGAP_Pr22 Homo sapiens cDNA clone iMAGE:1117515 3' similar to gb:M61866 ZINC FINGER PROTEIN 85 (HUMAN);
8279	1		3.84		-25 AL 163210.2	۲	Homo sapiens chromosome 21 segment HS21C010
	l						nf30h10.s1 NCI_CGAP_Pr1 Homo sapiens cDNA clone IMAGE:915331 similar to contains L1.t1 L1
10911	23430	36450	2.02		3.0E-25 AA579013.1	EST_HUMAN	repetitive element;
1392	L		9.82	L	5032158 NT	N	Homo sapiens transducin (beta)-like 1 (TBL1) mRNA
2347	L				2.0E-25 BE888016.1	EST_HUMAN	601511530F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3913087 5
2858			3.84	L	2.0E-25 P17008	SWISSPROT	40S RIBOSOMAL PROTEIN S16
4268	16854		2.04		2.0E-25 P17008	SWISSPROT	40S RIBOSOMAL PROTEIN S16
4268					2.0E-25 P17008	SWISSPROT	40S RIBOSOMAL PROTEIN S16
9680			1.9		2.0E-25 AL449573.1	EST_HUMAN	AL449573 Homo sapiens Testis (Stavrides GS) Homo sapiens cDNA
387				1.0	AL04022	EST_HUMAN	DKFZp434H0313_r1 434 (synonym: htes3) Homo saplens cDNA clone DKFZp434H0313 5
1291	13886		1.67	1.0E-25	9835487 NT	L	Human endogencus retrovirus, complete genome

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		Γ	Γ	Γ		Γ	Bins	T	Γ	Γ	Γ	Γ	Γ	Γ	Γ		T	Γ	Γ	i.a	Γ		T	Ė	Γ			
ongo chore to be seen in ordinate the	Top Hit Descriptor	ATP SYNTHASE LIPID-BINDING PROTEIN P2 PRECURSOR (ATPASE PROTEIN 9) (SUBUNIT C)	PM1-HT0454-080100-002-h09 HT0454 Homo saplens cDNA	zq45b06.s1 Stratagene hNT neuron (#937233) Homo sapiens cDNA clone IMAGE:632627 3' similar to	contains Alu repetitive element;	nn54h11.s1 NCI_CGAP_Kid6 Homo sapiens cDNA clone IMAGE:10877493'	z/98g04.s1 Soares_fetal_heart_NbHH19W Homo sapiens cDNA clone IMAGE:384822 3' similar to contains PTR3.t3 PTR8 repetitive element :	R. rattus RY2G5 mRNA for a potential ligand-binding protein	R.rattus RY2G5 mRNA for a potential ligand-binding protein	Homo sapiens MAGE-B2 (MAGE-B2), MAGE-B3 (MAGE-B3), MAGE-B4 (MAGE-B4), and MAGE-B1 (MAGE-B1) genes, complete cds	Human DNA, SINE repetitive element	Human DNA, SINE repetitive element	Homo sapiens chromosome 21 segment HS21C018	Homo sapiens chromosome 21 segment HS21C085	Human DNA, SINE repetitive element	Homo sapiens X-linked anhidrolitic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions	H.sapiens DNA for endogenous retroviral like element	hd02e12.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2908366 3'	Horno sapiens chromosome 21 segment HS21C002	zn30d08.r1 Stratagene neuroepithelium NT2RAMI 937234 Homo sapiens cDNA clone IMAGE:548943 5. similar to gb:M14338 V/ITAMIN K-DEPENDENT PROTEIN S PRECURSOR (HUMAN);	EST366629 MAGE resequences, MAGC Homo sapiens cDNA	Homo sapiens chromosome 9 duplication of the T cell receptor beta locus and trypsingen gene families	zq52h04.r1 Stratagene neurospithelium (#937231) Homo sapiens cDNA clone IMAGE:645271 5'	Homo sapiens chromosome 21 segment HS21C002	Homo saplens chromosome 21 segment HS21C002	Homo sapiens chromosome 21 segment HS21C010	as38h08.x1 Barstead aorta HPLRB6 Homo sapiens cDNA clone INAGE:2319519 3' similar to WP:F49C12.11 CE03371;	as38h08.x1 Barstead acrta HPLRB6 Homo sapiens cDNA clone IMAGE:2319519 3' similar to WP:F49C12.11 CE03371;
באסוויו וסמס	Top Hit Database Source	SWISSPROT	EST_HUMAN		EST HUMAN	EST HUMAN	EST HUMAN	NT	N	LX LX	N	N	ΝΤ	Z	N	LN	NT	EST_HUMAN	۲N	EST_HUMAN	EST_HUMAN	IN	EST HUMAN	NT	Z	N	EST_HUMAN	EST_HUMAN
26.10	Top Hit Acession No.	0E-25 Q06055	0E-25 BE162737.1			0E-25 AA582690.1	0E:25 AA709079.1	K60660.1	0E-25 X60660.1	0E-25 U93163.1		0E-25 D14547.1	9.0E-26 AL163218.2	AL163285.2	8.0E-26 D14547.1	0E-26 AF003528.1	0E-26 X89211.1	0E-26 AW 340153.1	0E-26 AL163202.2	0E-26 AA115895.1	0E-26 AW954559.1	0E-26 AF029308.1	6.0E-26 AA206131.1	6.0E-26 AL163202.2	AL 163202.2	4L163210.2	0E-26 A1708235.1	0E-26 AI708235.1
	Most Similar (Top) Hit BLAST E Value	1.0E-25	1.0E-25		1.0E-25	1.0E-25	1.0E-25	1.0E-25 X60660.1	1.0E-25	1.0E-25	1.0E-25	1.0E-25	9.0E-26	9.0E-26	8.0E-26	7.0E-26	7.0E-26	7.0E-26	7.0E-26	7.0E-26	7.0E-26	6.0E-26	6.0E-26	6.0E-26	6.0E-26	6.0E-26	5.0E-26	5.0E-26
	Expression Signal	1.13	3.09		0.85	3.08	4.27	0.66	99.0	3.71	1,9	1.9	1.57	1.69	1.55	0.92	1.16	2.04	0.86	8.46	3.49	2:32	1.37	0.48	0.48	5.92	3.55	3.55
	ORF SEQ ID NO:	27613	30001	-		32460	33303	34946	34947	36389	36777	36778	27660			26745	29117	29276	31165			27418	28476	35922	35923	37049	26334	26335
	SEQ ID NO:	15045	17558		19279	24775	20397	21990	21990	23370	24171	24171	15087	24828	18494	14214	16649	16827	18443	23968	24544	14841	15998	22920	22920	23979	13819	13819
	Probe SEQ ID NO:	2478	4884		888	0890	7855	9465	9465	10849	11787	11787	2523	11645	5872	1621	4052	4239	5819	11520	12376	2267	3390	10426	10426	11531	1219	1219

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					aiRiii C	EXUIT FIUDES	Single EXOT FIDDES EXPLOSED IT FEIGH LIVE
Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
1591	14184		2.25		4.0E-26 AA329548.1	EST_HUMAN	EST33446 Embryo, 12 week II Homo sapiens cDNA 5 end
8333	21847		3.53		7657670 NT	FZ	Homo sapiens upstream binding transcription factor, RNA polymerase I (UBTF), mRNA
10539	23078		3.69		4.0E-26 BE266187.1	EST_HUMAN	601191345F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3535210 5'
1798	14388	26930	1.2		D14547.1	۲N	Human DNA, SINE repetitive element
2048	14628		1	3.0E-28	3.0E-28 AL045855.2	EST_HUMAN	DKFZp4341066_r1 434 (synonym: https3) Homo sapiens cDNA clone DKFZp4341066 5'
2077	14657		2.22		3.0E-28 AA115895,1	EST_HUMAN	zn30d08.rl Stratagene neurospithelium NT2RAMI 937234 Homo sapiens cDNA clone IMAGE:548943 5' similar to gb:M14338 VITAMIN K-DEPENDENT PROTEIN S PRECURSOR (HUMAN);
3846	16445	28906	1.48		3.0E-26 AA152464.1	EST_HUMAN	zo30f10.r1 Stratagene colon (#937204) Homo sapiens cDNA clone IMAGE:588427 5' similar to TR:G895374 G895374 THYROID RECEPTOR INTERACTOR:
3846	16445	28907	1,48	Ĺ	3.0E-26 AA152464.1	EST_HUMAN	2030/10.r1 Stratagene cdon (#837204) Homo sapiens cDNA clone IMAGE:588427 5' similar to TR:G695374 G695374 THYROID RECEPTOR INTERACTOR;
6991	19489		6.04		3.0E-26 BF245458.1	EST_HUMAN	601864963F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4083278 5'
10604	Ш				3.0E-26 AF036405.1	٦	Homo saplens MLL (MLL) gene, exons 1-3, and partial cds
11442	23892	36957			AW875651.1	EST_HUMAN	QV2-PT0012-040400-124-e05 PT0012 Homo sapiens cDNA
11442					3.0E-26 AW875651.1	EST_HUMAN	QV2-PT0012-040400-124-e05 PT0012 Homo sapiens cDNA
02784	CEUCE	00000			2 OF 30 A A 80 3170 4	14 V 11 11 11 11 11 11 11 11 11 11 11 11 1	nn37d05.s1 NCI_CGAP_GC5 Hamo sapiens cDNA clone IMAGE:1088057 3 similar to contains OFR.t1
7/2//	ı		80.01		A4363 73.	LO L LONGIN	STAND STAND STAND IN COMP. HERE AND STAND MAY CE SETAND 1 COMP. IN COMP. MEDS STANDARD IN COMP. MEDS STANDARD S
12586	24665		2.21	3.0E-26	3.0E-26 AW073434.1	EST_HUMAN	MERSO repetitive element;
12861	24732	30857	1.48		3.0E-28 AF165520.1	L	Homo sapiens phorbolin I protein (PBI) mRNA, complete cds
710	13331	25818	5.38		2.0E-26 AL163282.2	NT	Homo sapiens chromosome 21 segment HS21C082
1909			2.42		2.0E-26 AL038099.2	EST_HUMAN	DKFZp566L171_s1 568 (synonym: hfkd2) Homo sapiens cDNA clone DKFZp566L171 3'
3268		28363			2.0E-26 X86694.1	INT	M.musculus mRNA for astrocytic phosphoprotein, PEA-15
10633	23165		3.35		D87675.1	LN	Homo sapiens DNA for amyloid precursor protein, complete cds
9000	20000	7,000			10044404	14 H	to89a01.x1 NCL CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2185416 3' similar to contains Alu
263					A1001+14.1	NICH IS	י בי
11296	_[2.17		2.0E-26 AF055066.1	LZ.	Homo sapiens MHC class 1 region
11894	_[١	AB037859.1	LZ.	Homo sapiens mRNA for KIAA1438 protein, partial cds
12101			3.03	1	2.0E-26 11435947 NT	LN.	Homo sapiens chromosome 12 open reading frame 3 (C12ORF3), mRNA
142					BE170371.1	EST_HUMAN	QV4-HT0538-020300-123-a02 HT0538 Homo sapiens cDNA
2091	14871	27241	1.5	1.0E-28	1.0E-26 AL039363.2	EST_HUMAN	DKFZp434H1910_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434H1910 5
2598					1.0E-26 BE814995.1	EST_HUMAN	MR2-BN0114-240500-030-g07 BN0114 Homo sapiens cDNA
2710	Ī		6.31		1.0E-26 AF261085.1		Homo sapiens glyceraldehyde-3-phosphate dehydrogenase (GADPH) mRNA, complete cds
6927	19586		2.52		BE165980.1	EST_HUMAN	MR3-HT0487-150200-113-g01 HT0487 Homo sapiens cDNA

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Probe SEQ ID	Exon SEQ ID	ORF SEQ	Expression	(Top) Hit	Top Hit Acession	Top Hit Database	Top Hit Descriptor
ö	ö	2	Bubic	Value	Ö Z	Source	
10772	23296		2.98	6.	E-26 AL038487.1	EST_HUMAN	DKFZp566C2146_r1 568 (synonym: hfkd2) Homo sapiens cDNA clone DKFZp566C2146 5'
12151	25084		2.79		1.0E-26 H55093.1	EST_HUMAN	CHR220032 Chromosome 22 exon Homo sapiens cDNA clone C22_45 5'
12625	24703		1.27	1.0E-26	1.0E-26 AW 408742.1	EST_HUMAN	UI-HF-BM0-adw-d-10-0-UI.r1 NIH_MGC_38 Homo sapiens cDNA clone IMAGE:3063210 5:
7584	20099		1117		9.0E-27 BF371227.1	EST_HUMAN	RC6-FN0138-110800-022-A02 FN0138 Homo sapiens cDNA
							Homo sapiens MAGE-B2 (MAGE-B2), MAGE-B3 (MAGE-B3), MAGE-B4 (MAGE-B4), and MAGE-B1
9227	21949		4		9.0E-27 U93163.1	N⊤	(MAGE-B1) genes, complete cds
						Г	naa03c07.x1 NCI_CGAP_Pr28 Homo sapiens cDNA clone IMA GE:3253644 3' similar to contains OFR,t1
11648	24080		6.15		9.0E-27 BF445556.1	EST_HUMAN	OFR repetitive element;
;							w/49c04.x1 NCI_CGAP_Lu19 Homo sapiens cDNA clone IMAGE 2406150 3' similar to contains THR.b2
	12690	25146				EST_HUMAN	HR reportitive element :
88	13213		3.36		8.0E-27 AL163227.2	NT	Homo sepiens chromosome 21 segment HS21C027
1461	14053	26585	28.2		8.0E-27 AW 162737.1	EST HUMAN	au87h08.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2783295 3' similar to gb:K00558 TUBULIN ALPHA-1 CHAIN (HUMAN);
							au87h08.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE 2783295 3' similar to ab:K00558
1461	14053	26586	28.2	i	8.0E-27 AW162737.1	EST_HUMAN	TUBULIN ALPHA-1 CHAIN (HUMAN);
2212	14787	27362	1.48		8.0E-27 AW864776.1	EST_HUMAN	PM2-SN0018-220300-002-a07 SN0018 Homo sapiens cDNA
3219	15831	28310	1 80		8 0F-27 P12236	TOAGSSIMS	ADP, ATP CARRIER PROTEIN, LIVER ISOFORM T2 (ADPIATP TRANSLOCASE 3) (ADENINE NICLE FORDS 3 (ADENINE)
3398	16004				27.1	Т	Homo serviens WRN (WRN) gene complete eds
5873	18495					T HUMAN	AV732214 HTF Homo sapiens cDNA clone HTFBCB06 5'
7054	18073				8.0E-27 BE926560.1	П	MR4-BT0398-250800-204-d06 BT0398 Homo sapiens cDNA
7444	10484	19006	c, c		70 00 00 00 00 00 00 00 00 00 00 00 00 0	NAME OF THE PARTY	J1751F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA clone J1751 5' similar to DEDESTITIVE DI ENENT 14
9136	21671	34613			8 0E-27 AW857579 1	EST HIMAN	CM1-CT0315-091299-063-407 CT0315 Home seniens cDNA
9136	21671	34614				Т	CM1-CT0315-091299-063-407 CT0315 Homo sapiens cDNA
712	13333		1.39				Human endogenous retroviral element HC2
5050	47045		99 (7 05 27 AW(620472 4	MANUEL FOR	hi51h12.x1 Sogres_NFL_T_GBC_S1 Home sapiens cDNA clone IMAGE:2975879 3' similar to TR:076040
2070	24220		26.0		l	Т	Unwar m DANA for KIAAADSA seen a medial and
40,00	23489		2			1 1	Training May to Tracket year to the tracket A/2
1228	24405		3.07		T	T HI MAN	AV702055 HTB Home consists CDNA Alone LITBALESOS:
10605	23139	36151			Ī	Т	Human nucleolar protein (823) mRNA complete cds
							Homo sapiens MAGE-B2 (MAGE-B2), MAGE-B3 (MAGE-B3), MAGE-B4 (MAGE-B4), and MAGE-B1
11621	24083	37127	2.33		6.0E-27 U93163.1	ΙN	(MAGE-B1) genes, complete cds

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Homo saplens chromosome 21 segment HS21C103 602121461F1 NIH_MGC_56 Homo saplens cDNA clone IMAGE:4278527 5' 602121461F1 NIH_MGC_66 Homo saplens cDNA clone IMAGE:4278527 5' 60210033-70300-152-b10 O710033 Homo saplens cDNA clone IMAGE:3862086 5' 60210-60200-6020-601-611 BT0627 Homo saplens cDNA clone IMAGE:3862086 5' 601468331F1 NIH_MGC_66 Homo saplens cDNA clone IMAGE:3862089 5' 60146831F1 NIH_MGC_66 Homo saplens cDNA clone IMAGE:4669 5' similar to TR:076040 on saplens jun dimerization protein gene, partial cds; clos gene, complete cds; and unknown gene lyace and saplens jun dimerization protein gene, partial cds; clos gene, complete cds; and unknown gene lyace and saplens jun dimerization protein gene, partial cds; clos gene, complete cds; and unknown gene lyace and saplens jun dimerization protein gene, partial cds; clos gene, complete cds; and unknown gene lyace and saplens jun dimerization protein gene, partial cds; clos gene, complete cds; and unknown gene lyace and saplens space and saplens cDNA clone IMAGE:468688 3' 600768 Feat brain, Statagene (catt8636206) Homo saplens cDNA clone IMAGE:100689 similar to get:MINAMA1 Homo sapl	Database Source Source THUMAN	§	(Top) Htd BLAST E S OE - 5.0E - 5.0E - 4.0E - 4.0E - 4.0E - 4.0E - 4.0E - 2.0E	Skares	ORF SEQ ID NO: 35619 35619 35620 35633 36963 36963 36963 36969 36963 36969 369		NO. 7752 10136 10136 10136 10136 11473 114
Acidio Nibosowa 21 segment HS21C046	Т			15.88	4 "	14524	11360
ACIDIC RIBOSOMAL PROTEIN P1 (HUMAN);	EST HUMAN	2.0E-27 AA565345.1		15.88			11380
MACE 100699 similar to do M17886 60S	Τ	Ī				1	3
U121885 MAMMA1 Homo sapiens cDNA clone MAMMA1000746 5'	Г		200			⊥	
ST00738 Fetal brain, Stratagene (cat#936206) Homo sapiens cDNA clone HFBCF07			L			L	9
ST00738 Fetal brain, Stratagene (cat#636206) Homo sapiens cDNA clone HFBCF07						L	ğ
rattus RYA3 mRNA for a potential ligand-binding protein			2.0E-27	-			9707
pettive element ;	T HUMAN		2.0E	2.25			9193
108h05.s1 NCI_CGAP_Thy1 Homo sapiens cDNA clone IMAGE:943737 similar to contains L1.f3 L1						L	
28g07.x1 NCI_CGAP_Ut1 Homo septens cDNA clone IMAGE:2426268 3			2.0E			L	3034
P.HMGC_MOUSE Q02591 HOMEOBOX PROTEIN ;			2.0E				3779
36e01.r1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:150840 5' similar to	X					L	
omo sapiens jun dimerization protein gene, partial cds; cfos gene, complete cds; and unknown gene			2.0E				1261
						L	
omo sapiens jun dimerization protein gene, partial cds; cfos gene, complete cds; and unknown gene			2.0E				281
76040 ORF2: FUNCTION UNKNOWN.;			2.0E	12.54			143
51h12.x1 Sogres_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2975679 3' similar to TR:076040							
CIDIC RIBOSOMAL PROTEIN P1 (HUMAN);				12.18			940
01510.s1 NCI_CGAP_Pr11 Homo sapiens cDNA clone IMAGE:1000699 similar to gb:M17886.50S	<u> </u>						
xno sapiens alpha NAC mRNA, complete cds			2.0E-			L	45
1458531F1 NIH_MGC_66 Hamo sapiens cDNA clone IMAGE:3862086 5	HUMAN		3.0E		L	ı	188
44C08 Chromosome 7 Fetal Brain cDNA Library Homo sapiens cDNA clone 7B44C08	П		3.0E-				549
Ao-BT0527-090100-001-d11 BT0527 Homo sapiens cDNA			30E-		l		358
rettus RYA3 mRNA for a potential ligand-binding protein			3.0E-			<u> </u>	288
sapiens DNA for endogenous retroviral like element			4.0E-				473
/0-OT0033-070300-152-b10 OT0033 Homo sapiens cLINA	HUMAN		4.0E-				83
ittus norvegicus putative four repeat ion channel micinA, complete cos			4.0E-27	1.22			925
rmo sapiens chromosome 21 segment HS21C009			4.0E-	1.14		•	88
is musculus sperm tali associated protein (Stap), mRNA		0569	4.0E-27			Ì	842
iman mRNA for integrin alpha subunit, complete cds			4.0E-27			ĺ	2423
2121491F1 NIH MGC 36 Hamo saplens cuna cione invade: 42/632/ 3			5.0E-				136
2/2/491F1 NIH Mich 30 Homo sapiens court cione invade: 42/0027 5	Т	١	5.0E-				136
Octoberos Establish March and Democratical Control March 1985 15	Т						2
mo sapiens chromosome 21 segment HS21C103		T	5 OF-27	0 79		1	75.7
	Database Source	o,	BLAST E Value	Signal	Ω O O	SEO ID	<u> </u>
Top Hit Descriptor	Top Hit	Top Hit Acession	(Top) Hit	Expression	ORF SEQ	Exon	3
			Most Similar				Probe

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Probe SEQ ID NO:	Exen SEQ ID NO:	ORF SEQ. ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
1034	13644	26157	1.25	10.1	E-27 AB026898.1	TN	Homo sapiens DNA, DLEG1 to ORGTL4 gene region, section 1/2 (DLEG1, ORGTL3, ORGTL4 genes, complete cds)
4155	16747		1.02	1.0	E-27 BE350127.1	EST_HUMAN	ht09g01.x1 NCI_CGAP_Kid13 Homo saplens cDNA clone IMAGE:3146256 3' similar to contains MER29.b3 MER29 repetitive element ;
9885	19261	32065	88.9	1.0E-27	LN 9585009	NT	Homo sapiens Retina-derived POU-domain factor-1 (RPF-1), mRNA
6952	19529		1.86	1.0	E-27 F30158.1	EST_HUMAN	HSPD20481 HM3 Homo saplens cDNA clone s4000095C10
6952	19529		1.86	1.0	E-27 F30158.1	EST_HUMAN	HSPD20461 HM3 Homo sapiens cDNA clone s4000095C10
8546		34008				TN	Homo sapiens mRNA for KIAA0454 protein, partial cds
8916	21454		1.89		1.0E-27 BE079780.1	EST_HUMAN	RC6-BT0827-140200-011-E06 BT0627 Homo sapiens cDNA
8638	22138	35104	2.68		1.0E-27 D87449.1	LN	Human mRNA for KIAA0260 gene, partial cds
11551	23999	37071	3.65	1.0	E-27 AF111093.1	LN	Bos taurus latrophilin 3 splice variant bbah mRNA, complete cds
148	12810		2.02		9.0E-28 BE348399.1	EST_HUMAN	hw17c11.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3183188 3' similer to TR:007314 Q07314 SECRETED NEUREXIN III-ALPHA-C PRECURSOR. [3] TR:007280 TR:007313 ;
333	12985	25472				EST_HUMAN	AU126260 NT2RP1 Homo sepiens cDNA clone NT2RP1000443 5'
11732	24137		4.71	9.0E-28		EST_HUMAN	CM2-TN0140-070900-372-g01 TN0140 Homo sapiens cDNA
12066	24923		4.41	8.0E-28	8.0E-28 AW 157571.1	EST HUMAN	au83h08.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2782911 3' similar to TR:060302 060302 KIAA0555 PROTEIN. ;contains element MER22 repetitive element;
1223	13823	26338	16.9	L	7.0E-28 AU142750.1	EST_HUMAN	AU142750 Y79AA1, Homo sapiens cDNA clone Y79AA1000824 5'
11066			3.08		11417866 NT	N	Homo sapiens gamma-glutamytransferaso-like activity 1 (GGTLA1), mRNA
11688	L		2.37	L	AV735348.1	EST_HUMAN	AV735348 CB Hamo sapiens cDNA clone CBFAKA12 5'
8850	21389		1.04	L	8.0E-28 AF016052.1	N.	Homo sapiens zinc finger protein ZNF191 (ZNF191) gene, complete cds
12348	24527		12.5		6.0E-28 AA504562,1	EST HUMAN	eae0eo3.r1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:825340 5' similar to contains Alu repetitive element:contains element PTR5 repetitive element ;
							wo18c07.x1 NCI_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2455692 3' similar to contains THR.b1
340	12992		2.28		5.0E-28 AI921003.1	EST_HUMAN	THR repetitive element ;
4081	16677	29137			5.0E-28 R79762.1	EST_HUMAN	yi89110.r1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:146443 5'
2854	15213	27786	1.12	0.4	E-28 AW195066.1	EST HUMAN	xn33c09.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2895504 3' similar to SW:GG95_HUMAN Q08379 GOLGIN-95.;
3005	l		0.76	4.0	4505316 NT	z	Homo sapiens myosin phosphatase, target subunit 1 (MYPT1), mRNA
3142		L		4.0	BE40910	EST_HUMAN	601300703F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3635305 5'
7368	19894	32757	1.79		4.0E-28 A)198941.1	EST_HUMAN	qf66f10.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1755019 3' similar to gb:M19503 LINE-1 REVERSE TRANSCRIPTASE HOMOLOG (HUMAN);
10745	23269		4.9		4.0E-28 AF029308.1	TN	Homo sapiens chromosome 9 duplication of the T cell receptor beta locus and trypsinogen gene families
	ı			I			

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
10885	23406		25.24	4.0E-	28 AB038241.1	LX	Felis catus GAPDH mRNA for glyceraldehyde-3-phosphate dehydrogenase, complete cds
10904	19894	32757	3.33	4.0E-	28 AI198941.1	EST_HUMAN	qf86f10.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1755019 3' similar to gb:M19503 LINE-1 REVERSE TRANSCRIPTASE HOMOLOG (HUMAN);
12116	24375		1.71	4.0E-28	28 AW854244.1	EST_HUMAN	RC3-C70254-240400-210-f12 C70254 Homo sapiens cDNA
12657	24728		72.51	4.0E-	28 AW157571.1	EST_HUMAN	au83h08.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone INAGE:2782911 3' similar to TR:060302 060302 KIAA0555 PROTEIN ; contains element MER22 repetitive element;
	i						Homo sapiens metalloprotease-like, disIntegrin-like, cysteine-rich protein 2 epsilon (ADAM22) mRNA,
1328	ı			3.05		7	complete cds
8761					3.0E-28 BF354030.1	T_HUMAN	MR3-HT0713-280500-013-f09 HT0713 Homo sapiens cDNA
10815	23336	36349	2.08			NT	Homo sepiens MHC class 1 region
							wj98f07.x1 NCI_CGAP_Lym12 Homo sapiens cDNA clone IMAGE:2410885 3' similar to contains Alu
12147			2.53	3.0E-		EST_HUMAN	repetitive elament;contains element HGR repetitive element;
12284	24486		1.77	3.0E-28	28 BE082801.1	EST_HUMAN	RC2-BT0642-210200-013-f03 BT0642 Homo sapiens cDNA
92	12768	25251	8.71	2.0E-		EST_HUMAN	RC1-BT0254-220300-019-c05 BT0254 Homo sapiens cDNA
1207	13807		8.63	-30E-	28 Y11107.3	LN	Homo saplens ITGB4 gene for integrin beta 4 subunit, exons 3-41
							qq35b08.x1 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1910483 3' similar to contains L1.b2.L1
2517	15081			2.0E-		EST HUMAN	repetitive element;
3407	16016	28495	0.64	2.0E-	28 AL 163 209.2	NT	Homo sapiens chromosome 21 segment HS21 C009
6440	19050	91836	6 1	2 OF.	28 BE224402 4	PST HIMAN	hr78c03.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3134404.3' similar to contains LOR1.b1 LOR1 repositive element
8472				2.0E-		EST HUMAN	601814196F1 NIH MGC 54 Homo sapiens cDNA clone IMAGE:4048751 5'
7988	1	33437		2.0E		IN	Sus scrofa domestica submaxillary apomucin mRNA, complete cds
9505	22005		11	2.0E-	28 AW972305.1	EST_HUMAN	EST384394 MAGE resequences, MAGL Homo sapiens cDNA
							Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3
11481	23931	37002	1.91	2.0E-	_	NT	(UBE2D3) genes, complete cds
12127	24383		1.74		2.0E-28 H06376.1	EST_HUMAN	y/79c08.r1 Soares Infant brain 1NIB Homo sapiens cDNA clone IMAGE:44300 5'
1628	14118	26655	3.52			NT	Human gene for Ah-receptor, exon 7-9
2261	14835	Ì.,	1.6	1.0E-	1	EST_HUMAN	QV1-BT0821-120900-360-b03 BT0821 Homo sapiens cDNA
2708	15265	27832	1.38	-30.1	28 AF000995.1	۲N	Homo sapiens ublquitous TPR motif, Y isoform (UTY) mRNA, alternative transcript 2, complete cds
4688	17250		96:0	1.0E-	28 U09410.1	LΝ	Human zinc finger protein ZNF131 mRNA; partial cds
7801	20344		7.69	1.0E-28	-	LN	Homo sapiens similar to ribosomal protein L12 (H. sapiens) (LOC63091), mRNA
786	20503		3.2	1.0E-28	TN 8922793	LN	Homo sapiens hypothetical protein FLJ10968 (FLJ10968), mRNA
9202	21719	14683	472	1 OF.	28 AA308744 1	FST HUMAN	EST178615 HCC cell line (matastasts to liver in mouse) II Homo sapiens cDNA 5' end similar to similar to retroviral LTR
2000	Į			1,0	יייייייייי		

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Single Exon Probes Expressed in Fetal Liver	Most Similar (Top Hit Acession Database Source Value	L	1.0E-28 4758431 NT	5 1.0E-28 A4054182.1 EST_HUMAN 251001.11 Socres retina N2b4HR Homo sapiens cDNA clone IMAGE:380448 5	1.0E-28 AL163247.2 NT	5 9.0E-29 AW 663987.1 EST HUMAN hi76906.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE: 2978266.3		4 7.0E-29 AW 966447.1 EST HUMAN EST378521 MAGE resequences, MAGI Homo sapiens cDNA	7.0E-29 BE254708.1 EST_HUMAN	7.0E-29 AJ132352.1 NT	6.0E-29 A1936748.1 EST HUMAN	6.0E-29 BE940436.1 EST HUMAN	5.0E-29 AL163203.2 NT	5.0E-29 AW 887541.1 EST_HUMAN	5.0E-29 BE612449.1 EST_HUMAN	4.0E-29 AI752367.1 EST_HUMAN	4.0E-29 BE164930.1 EST_HUMAN	4.0E-29 AI678101.1	wd35g06.x1 Soares_NFL_T_GBC_S1 Homo saplens cDNA clone IMAGE:2330170 3' similar to contains 4.0E-29 Ai678101.1 EST HUMAN MER29.t2 MER29 repetitive element:	4.0E-29 J04988.1	3.0E-29 AB042297.1 NT	3.0E-29 BF333236.1 EST_HUMAN	3.0E-29 BE314018.1	3.0E-29 D38044.1	3 0E-29 AW303317 1 FST HIMAN Inceptitive element contains MER19 to MER19 reportitive element contains Alia	3.0E-29 AL163246.2 NT	3.0E-29 BE350127.1 EST_HUMAN	3.0E-29 AA403053.1 EST_HUMAN
		9.67 1.0	9.67 1.0	10.45 1.0	1.56 1.0	3.5 9.0	5.36 8.0	1.04 7.0			7.35 6.0	9.29 6.0			1.32 5.0	2,92 4.0	6.52 4.0	0.92	0.92 4.0	6.03 4.0	1.58 3.0		0.88 3.0	2.6 3.0	1.93		0.76 3.0	1.88 3.0
	ORF SEQ ID NO:		38 35273	80	11	30502	99	38 26773	11	18	18 25722	120	0	1	Q	Į,	13	33469	33470	34139	30 29538		31452	34124	34683		82	36698
	Probe Exon SEQ ID SEQ ID NO: NO:		9790 22288	11693 24108	12484 24811	12596 25034			3607 16211	12644 24718	621 13248	12002 24307	5138 17710		12276 24480	3269 15881	6160 18773	8025 20567	8025 20567	8680 21219	4506 17090		6088 18704	8668 21207	9224 21740		9869 22366	11148 23656
	Probe SEQ ID NO:	5)	్త	Ē	12	12	12		3	12		12	3	8	12	E	ြိ	8	60	8	4	4	φ	8	6	ြီ	Ů	=

PCT/US01/00669

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		,					
Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
11891	24234		2.61	3.0E-29	29 D63882.1	NT	Human Hst.IM15 mRNA for HsLim15, complete cds
12553	25044		1.95	3.0E-	29 D63882.1	LN	Human HsLIM15 mRNA for HsLim15, complete cds
518	13150	25632	1.07	2.0E-	1.0	NT	Homo sapiens envelope protein RIC-8 (env) gene, complete cds
518	13150			2.06	29 AF084869.1	L	Homo sapiens envelope protein RIC-8 (env) gene, complete cds
08.7	14173			2.0E	29 A1963604.1	EST HUMAN	wr85d10.x1 NCI_CGAP_Ut1 Homo sapiens cDNA clone IMAGE:2492563 3' similar to TR:015546 015548 HERV-E ENVELOPE GLYCOPROTEIN ;
1580	14173			2.0E	29 A1963604.1	EST HUMAN	wr65d10.x1 NCI_CGAP_Ut1 Homo sapiens cDNA clone IMAGE:2492563 3' similar to TR:015546 015548 HERV-E ENVELOPE GLYCOPROTEIN;
4386	16953			2.0E		NT.	Homo sapiens chromosome 21 segment HS21C088
5007	18811			2.0E	.29 A1082459.1	EST HUMAN	os71e04.x1 NCI_CGAP_GC2 Homo sapiens cDNA clone IMAGE:1610814.3' similar to contains L1.t2 L1 repetitive element ;
6327	l			2.0E	29 AI806418.1	EST_HUMAN	wf27g07.x1 Soares_NFL_T_GBC_S1 Homo saplene cDNA clone IMAGE:2356860 3' similar to contains element MER6 repetitive element;
Ş				200	20 A BOR418 1	HIMAN	wt27g07.x1 Sogres_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2356860 3' similar to contains element MER8 repetitive element:
797	20459			2.0E	29 BE867157.1	EST HUMAN	601442206F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3846648 5
8514	L			2.0E	10567821 NT	N	Homo sapiens DNA-binding protein (LOC56242), mRNA
8514			0.55	2.0E-29	10567821 NT	NT	Homo sapiens DNA-binding protein (LOC56242), mRNA
9427	<u> </u>	34884	3.74	2.0E	-29 AL163248.2	NT	Homo sapiens chromosome 21 segment HS21C048
9427	ı			2.0	AL163248.2	NT	Homo sapiens chromosome 21 segment HS21C048
10138	1		3.15	2.0E	-29 AL163248.2	L/L	Homo sapiens chromosome 21 segment HS21C048
10138		35623	3.15	2.0E	AL1632	L	Homo sapiens chromosome 21 segment HS21C048
11350			2.03	2.0E	11425108 NT		Homo sapiens splicing factor similar to dnaJ (SPF31), mRNA
11390	23842		2.46	2.0E	-29 AW880701.1	EST_HUMAN	QV0-OT0032-080300-155-d01 O10032 Homo sapiens cDNA
11835	24075		1.93	2.0E	-29 AL163227.2		Homo sapiens chromosome 21 segment HS21C027
8727	21266	34188		1.0E	-29 AW983880.1	EST_HUMAN	RC1-HN0003-220300-021-b04 HN0003 Homo septens cDNA
10503		36006		1.0E	-29 X60658.1	NT	R.rattus RYA3 mRNA for a potential ligand-binding protein
							nz20c07.s1 NCI_CGAP_GCB1 Homo saplens cDNA clone IMAGE:1288332 3' similar to contains MER4.b1
9699	19292	32096	3.08	9.0E	-30 AA781215.1	EST_HUMAN	MER4 repetitive element :
11773	24162		2.08		11422745 NT	.	Homo sapiens zinc/iron regulated transporter-like (ZIRTL), mKNA
6461	19062		9.33	8.0E	8.0E-30 F08688.1		HSC23F051 normalized infant brain cDNA Homo saplens cDNA clone C-23f03
8214	li			8.0E	-30 AA383873.1	EST HUMAN	EST97317 Thymus I Home sapiens CUNA 5 and similar to EST containing of family repeat
8617	1	34069		8.0E	-30 AI557072.1	EST_HUMAN	P12.1 13 B11.r tumorz Homo sapiens cONA 3
1582	14154		0.91	7.0E-30	BE091133.1	EST_HUMAN	PM4-5 (0/24-150400-004-011 5 (0/24 nomb equiris cuina

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				Mort Similar).B)	2001 1100	ביינונים ביי
SEQ ID	SEQ ID	ORF SEQ ID NO:	Expression Signal		Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
1779	20291	L	1.28	7.0E-30	7.0E-30 BF035327.1	EST_HUMAN	601458531F1 NIH_MGC_86 Homo sepiens cDNA clone IMAGE:3862086 5'
1810	14400		1.35			NT	Human mRNA for integrin alpha subunit, complete cds
3224	15836		2.38		6.0E-30 BE008026.1	EST_HUMAN	QV0-BN0147-290400-214-f12 BN0147 Homo sapiens cDNA
4872	15836		1.1	6.0E-30		EST_HUMAN	QV0-BN0147-290400-214-f12 BN0147 Homo sapiens cDNA
10432			0.72			LZ	Homo saplens CTCL tumor antigen se20-10 mRNA, partial cds
12615	Ŀ		1.6		6.0E-30 X51755.1	LZ	Human lambda-immunoglobulin constant region complex (germline)
							tg92g03.x1 NCI_CGAP_CL1 Homo sapiens cDNA clone IMAGE:2116276 3' similar to contains Alu
4085		29141	39.51	5.0E-30	Al399992.1	EST_HUMAN	repetitive element;
5448	24850		4.03		5.0E-30 U87931.1	NT	Human aconitate hydratase (ACO2) gene, exon 7
10767	23291		3.31	5.0E-30		FZ	Homo sapiens chromosome 21 segment HS21C078
11034	<u> </u>	36583	67.9	5.0	E-30 AL163210.2	IN	Homo sapiens chromosome 21 segment HS21C010
11034				5.0	E-30 AL 163210.2	FZ	Homo sapiens chromosome 21 segment HS21C010
2188	1			4.0	E-30 AW937471.1	EST_HUMAN	QV3-DT0043-090200-080-c06 DT0043 Homo sapiens cDNA
2188	14764		1.32	4.0	E-30 AW937471.1	EST HUMAN	QV3-DT0043-090200-080-c06 DT0043 Homo sapiens cDNA
8836	21375		3.16	4.0	E-30 AW812488.1	EST_HUMAN	CM1-ST0181-091199-035-f08 ST0181 Homo sapiens cDNA
							qq83o05.xf Soares_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:1938920 3' similar to
<u>‡</u>						EST_HUMAN	contains MER29.b2 MER29 repetitive element :
3821		28883				NT	Homo sapiens telomerase reverse transcriptase (TERT) gene, exons 1-6
7893			0.47		3.0E-30 AF078779.1	N	Rattus norvegicus putative four repeat ion channel mRNA, complete ods
8423	20963		0.5			LN	Rattus norvegicus putative four repeat ion channel mRNA, complete cds
							ht09g01.x1 NCI_CGAP_Kid13 Homo sapiens cDNA clone IMAGE:3146256 3' similar to contains MER29.b3
10330	- 1	35820			3.0E-30 BE350127.1	EST_HUMAN	MER29 repetitive element :
10460	1			3.0E-30		NT	Homo sapiens mRNA for KIAA1143 protein, partial cds
10460			0.53	3.0E-30	59.1	NT	Homo sapiens mRNA for KIAA1143 protein, partal cds
11084		36632	1.78		P34056	SWISSPROT	TRANSCRIPTION FACTOR AP-2
703		ı	1.3	2.0E-30	AW857315.1	EST_HUMAN	CM0-CT0307-310100-158-h03 CT0307 Homo sapiens cDNA
1123	13726		2.35		F08688.1	EST_HUMAN	HSC23F051 normalized infant brain cDNA Homo saptens cDNA clone c-23f05
1527	14119		7.23	2.0E-30	BE175877.1	EST_HUMAN	RC5-HT0582-110400-013-H08 HT0582 Homo sapiens cDNA
2740	15295	27862	80.6		2.0E-30 BE765232.1	EST_HUMAN	IL2-NT0101-280700-116-E04 NT0101 Homo sapiens cDNA
2944		L	6.74	L		LN L	Homo sapiens Y-linked zinc finger protein (ZFY) gene, complete cds
3857					AW 206581.1	EST_HUMAN	UI-H-BI1-efo-c-12-0-UI.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2722558 3'
4892					2.0E-30 BE298945.1	EST_HUMAN	601119860F1 NIH_MGC_17 Homo sepiens cDNA clone IMAGE:3029438 5'
4892		28923			2.0E-30 BE298945.1	EST_HUMAN	601119860F1 NIH_MGC_17 Homo septens cDNA clone IMAGE:3029438 5
6855	19443		0.92		BF306337.1	EST_HUMAN	601893208F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4138983 5'

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					2:6: 2		
Probe SEQ ID NO:	SE ON NO: OO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
8412	20952		0.81	2.0E-30	1.1	EST_HUMAN	ze58c10.r1 Soares retina N2b4HR Homo sapiens cDNA clone IMAGE:363186 5'
8474	21014	33930	5.63	2.0E	-30 C18939.1	EST_HUMAN	C18939 Human placenta cDNA (TFujiwara) Homo sapiens cDNA clone GEN-570C01 5'
8570	21109	34027	3.55	2.0E	30 BE670617.1	EST_HUMAN	7e37c12.x1 NCI_CGAP_Lu24 Homo saplens cDNA clone IMAGE:3284682 3' similar to SW:DHSA_HUMAN P31040 SUCCINATE DEHYDROGENASE [UBIQUINONE] FLAVOPROTEIN SUBUNIT PRECURSOR:
8570	21109	34028	3.55	2.0E	-30 BE670617.1	EST_HUMAN	7e37c12.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3284662 3' similar to SW:DHSA_HUMAN P31040 SUCCINATE DEHYDROGENASE [UBIQUINONE] FLAVOPROTEIN SUBUNIT PRECURSOR;
8066	22405	L		2.0E	-30 AW971568.1	EST_HUMAN	EST383657 MAGE resequences, MAGL Homo sapiens cDNA
9994	22489	35477	6.11	2.0E	-30 AW470791.1	EST_HUMAN	ha33d06.x1 NCJ_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2875499 3' similar to contains THR.b3 THR repetitive element ;
308	12963	25452	12.31	1.06	-30 C18939.1	EST_HUMAN	C18939 Human placenta cDNA (TFujiwara) Homo sapiens cDNA clone GEN-570C01 5'
563	ł		3.84	1.0E	-30 AW468897.1	EST_HUMAN	hd30b04.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA ckne IMAGE:2910991 3' similar to contains MER1.t3 MER1 MER1 repetitive element ;
745	L		2.7	1.0E	-30 AL 163203.2	LΝ	Homo sapiens chromosome 21 segment HS21C003
2253	14827	27403	3.59	1.0E	-30 AA664377.1	EST_HUMAN	ac77b08.s1 Stratagene lung (#937210) Homo sapiens cDNA clone IMAGE:868599 3'
2502	15066	27640	1.64		1.0E-30 BF347728.1	EST_HUMAN	602022560F1 NCI_CGAP_Brn67 Home sapiens cDNA clone IMAGE:4157991 5'
3035	ı		1.36		5803091 NT	IN	Homo saplens methionine aminopeptidase; elF-2-associated p67 (MNPEP), mRNA
3080	15705	28177	1.06		1.0E-30 AA315045.1	EST_HUMAN	EST186868 HCC cell line (matastasis to liver in mouse) II Homo saplens cDNA 5' end
7708	20217	33105	16.59	1.0E	-30 BF183230.1	EST_HUMAN	601809932F1 NIH_MGC_18 Hamo sapiens cDNA clone IMAGE:4040694 5
12268	25029		1.48	1.0E	30 AA299211.1	EST_HUMAN	EST11698 Uterus Homo sapiens cDNA 5' end
12411	<u> </u>		8.63	1.0E	-30 H55593.1	EST_HUMAN	CHR220532 Chromosome 22 exon Homo sapiens cDNA clone C22_728 5
3829	16429	28890	0.72	30'6	-31 T73025.1	EST_HUMAN	yc65e08.r1 Stratagene liver (#937224) Homo sapiens cDNA clone IMAGE:85570 5'
3829	18429	28891	0.72	30.6	-31 T73025.1	EST_HUMAN	yc65e06.r1 Stratagene liver (#937224) Homo sapiens cDNA clone IMAGE:85570 5'
RZAR	20807	33725	1.03	30.6	-31 R18214.1	EST HUMAN	yf99b08.r1 Soares infant brain 1NIB Homo sapiens cDNA clone IMAGE:30566 5' similar to gb:X12953 RAS- RELATED PROTEIN RAB-2 (HUMAN);
	1						y/99b08.r1 Soares infant brain 1NIB Homo sapiens cDNA clone IMAGE:30566 5' similar to gb.X12953 RAS-
8286	20807	33726			9.0E-31 R18214.1	EST_HUMAN	RELATED FROTEIN KAB-Z (HUMAN);
8228	21098		1.84		9.0E-31 Z38293.1	EST_HUMAN	HSC05F032 normalized infant brain cDNA Homo saplens cDNA clone c-05f03 3'
8561	L	34020			AF07877	Ľ.	Rattus norvegicus putative four repeat ion channel mRNA, complete cds
12840	24715		1.89			Z	Mus musculus syndecan 4 (Sdc4), mRNA
1115		26230			8923389 NT	Z	Homo sapiens hypothetical protein FLJ20420 (FLJ20420), mRNA
2467			4.22		8.0E-31 AL163208.2	L	Homo sapiens chromosome 21 segment HS21C008
11801	24910		2.71		AF012385.1	EST_HUMAN	AF012383 Human testis (C. De Simer) Homo sapiens conva cione i DF3. Lo

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Top Hit Descriptα	EST84555 Colon adenocarcinoma IV Homo sapiens cDNA 5' end	hw05a11.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3182012.3'	hw05a11.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3182012.3	Homo sapiens V1-vascular vasopressin receptor AVPR1A gene, promoter region and partial cds	Homo sapiens V1-vascular vasopressin receptor AVPR1A gene, promoter region and partial cds	601304125F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3638310 5'	Human lambda-immunoglobulin constant region complex (germline)	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively	peiced	Homo sapiens MHC class 1 region	ht09g01.x1 NC _CGAP_Kid13 Home sapiens cDNA clone IMAGE:3146256 3' similar to contains MER29.b3	MICHAE I Epolitive digitality	UTIETUS HEMBAT HOMO Sapiens CUNA GIONE HEMBATUUSUSUS	RC5-BT0377-091299-031-D12 BT0377 Homo sapiens cDNA	601433087F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3918524 5'	Homo saplens type I DNA topoisomerase gene, exon 8	Homo sapiens type I DNA topoisomerase gene, exon 8	7k06f04.x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:3443479 3' similar to TR:Q13537 Q13537 SIMII AR TO POGO EI EMENT 'contains 1 to 1 1 femalities element	Homo sapiens Xa pseudoautosomal region: segment 1/2	Homo sapiens chromosome 21 segment HS21C080	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA	Rattus norvegicus GTP-binding protein REM2 (Rem2) mRNA, complete cds	Homo sapiens GGT1 gene, exon 1	Homo saplens gene for activin receptor type IIB, complete cds	AND Appropriate (In 1974) (In 1974) Company of Leading (In 1974) Company of Line (In 1974) Company of Line (In 1974) Company (In 1974) Company of Line (In 1974) Company of Li	Home content handbaked and an an 110000 (10000) and an analysis of 1000 (1000) and A	one organisation of the control of t	nomo sapiens anamosane z 1 segment noza cuo	horse manny for ferrian L-chain, complete cas	zu06d04.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:731047 5'	40S RIBOSOMAL PROTEIN S15 (RIG PROTEIN)	601458531F1 NIH_MGC_66 Home sapiens cDNA clone IMAGE:3862086 5'	QV2-LT0051-260300-111-f03 LT0051 Homo sapiens cDNA
Top Hit Database Source	EST_HUMAN E	EST_HUMAN P	T_HUMAN	- IN	Z	EST_HUMAN	Г		NT R	NT	14 6 7 1	1	7	П	T_HUMAN	TN IN	±N	FOT HIMAN	Т			N.	i l	- L					Т	_]	П		
Top Hit Acession No.	-31 AA372637.1	7.0E-31 BE326517.1	-31 BE326517.1	E-31 AF 208541.1	-31 AF208541.1	-31 BE408611.1	-31 X51755.1		6.0E-31 AF223391.1	-31 AF055066.1	0 00 24 0020007	05330127.1	6.0E-31 AUT19105.1	6.0E-31 AW372868.1	BE894488.1	5.0E-31 M60694.1		5 0E-31 BE056540 1			5730038 NT	4.0E-31 AF084464.1	4.0E-31 AJ230125.1	-31 AB008681.1	TIM 630000	TA 20200	3	,	I	-31 AA421242.1		٦	-31 AW838171.1
Most Similar (Top) Hit BLAST E Value	7.0E-31	7.0E-31	7.0E-31	7.0E-31	7.0E-31	7.0E-31	7.0E-31		6.0E-31	6.0E-31	20 30	0.05-31	0.0E-31	6.0E-31	6.0E-31	5.0E-31	5.0E-31	5 0E-31	4.0E-31	4.0E-31	4.0E-31	4.0E-31	4.0E-31	4.0E-31	10 00	3.00-31	2000	3.0E-31	3.0E-31	3.0E-31	3.0E-31	3.0E-31	2.0E-31
Expression Signal	2.5	2.37	2.37	0.82	0.82	1.62	1.53		2.28	6.98	0 70	0.70	80.	3.25	2	3.89	3.89	27.0	2.67	2.42	1.02	0.65	1.65	1.51	7	58.	25.0	2.10	14.68	0.64	2.78	6.94	1.52
ORF SEQ ID NO:				00888	33801		85608				20700			31038		25352	25353					35924			72707			١			36060		27102
Exon SEQ ID NO:				20881	20881	21707	24455	l		20635	20044		ı	_		12867	12867	2002	L	L	15367	22921	24309	24559	10003	1	\perp	ı		_	_{	$oldsymbol{\bot}$	14545
Probe SEQ ID NO:	740	2692	2692	8340	8340	9190	12243		3742	8094	8773	10617	3	11835	11964	206	206	8382	622	1854	2815	10427	12006	12399	77.77	7505	2070	2010	0000	10488	10510	11032	1961

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Table 4
Single Exon Probes Expressed in Fetal Liver

Top Hit Descriptor	Human cell 12-lipoxygenase mRNA, complete cds	H.sapiens mRNA for myosin	H.sapiens mRNA for myosin	zn66c08.r1 Stratagene HeLa cell s3 937216 Homo sapiens cDNA clone IMAGE:563150 5'	zn66c08.r1 Stratagene HeLa cell s3 937216 Homo sapiens cDNA clone IMAGE:563150 5'	AV736449 CB Hamo sapiens aDNA done CBFB/A08 5'			[nw21g02.s1 NCI_CGAP_GCB0 Homo sapiens cDNA clone IMAGE:1241138 3' similar to contains THR.t3 THR repetitive element ;	hw07c05.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3182216 3' similar to TR:O88539 O88539 WW_DOMAIN BINDING PROTEIN 11.;	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively	spliced	602021164F1 NC _CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4156670 5	Homo sapiens chromosome 21 segment HS21C080	Homo sapiens short-chain alcohol dehydrogenase family member (HEP27) mRNA	Homo sapiens short-chain alcohol dehydrogenase family member (HEP27) mRNA	to12b09.x1 NCI_CGAP_UIZ Homo sapiens cDNA clone IMAGE:2178809 3' similar to contains OFR.t1 OFR repetitive element:	AV730056 HTF Homo sapiens cDNA clone HTFAVE06 5'	Г	Human hLRP mRNA for leukocyte common antigen-related peptide (protein-tyrosine phosphate) (EC 3.1.3.48)	602021164F1 NCI_CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4158970 5	EST383657 MAGE resequences, MAGL Homo sepiens cDNA	Г	_		HSPD21201 HM3 Homo sapiens cDNA clone s4000107H06	HSPD21201-HM3 Homo sapiens cDNA clone s4000107H06	Human glyceraldehyde-3-phosphate dehydrogenase (GAPDH) gene, complete cds	Homo sapiens similar to RAD23 (S. cerevisiae) homolog B (H. sapiens) (LOC63277), mRNA	Mus musculus SRY-box containing gene 6 (Sox6), mRNA
Top Hit Database Source	₽N	FZ	FZ	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	TN	EST HUMAN	EST HUMAN		LN.	EST_HUMAN	TN	NT	TN	NAM IH TAR	EST HUMAN	EST HUMAN	FN	EST_HUMAN	EST_HUMAN		EST_HUMAN	٦	EST_HUMAN	EST_HUMAN	NT	F	Ľ.
Top Hit Acession No.	-32 M35418.1		2.0E-32 Z38133.1	2.0E-32 AA114294.1	2.0E-32 AA114294.1	-32 AV736449.1	-32 AV736449.1	11439789 NT	-32 AA720574.1	-33 BE327112.1		:-33 AF223391.1	9.0E-33 BF347229.1	9.0E-33 AL163280.2		5031736 NT	33 45001151	7.0E-33 AV730056.1	-33 AW971307.1	7.0E-33 X54890.1	7.0E-33 BF347229.1	7.0E-33 AW971568.1			5.2	6.0E-33 F30631.1	6.0E-33 F30631.1	6.0E-33 J04038.1	-	6755609 NT
Most Similar (Top) Hit BLAST E Value	2.0E-32	2.0E-32 Z38133.1	2.0E-32	2.0E-32	2.0E-32	2.0E-32	2.0E-32	1.0E-32	1.0E-32	9.0E-33		9.0E-33	9.0E-33	9.0E-33	7.0E-33	7.0E-33	7 0F-33	7.0E-33	7.0E-33	7.0E-33	7.0E-33	7.0E-33		7.0E-33	6.0E-33	6.0E-33	6.0E-33	6.0E-33	6.0E-33	6.0E-33
Expression Signal	0.9	5.69	5.69	2.08	2.06	1.41	1.41	6.86	4.86	5.7		4.1	2.52	6:39	2.71	2.71	1 00	8.8	15.78	1.08	4.73	2.53		7.43	0.79	1.11	1.11	7.9	4.14	1.73
ORF SEQ ID NO:	31781	32007	32008	33676	33677		30860	32271	33991	<u></u>			34182		25219		37266				36249			31009		31599	31600	33977		35393
SEQ ID	19003	L	1		20761	l		19455	21071	i i	l	19150	21262	23209	12744	12744	44702	1	ı	l	ı	23635		24253	16400	18827	18827	21054		
Probe SEQ ID NO:	6400	8605	8605	8220	8220	12610	12610	7115	8532	3527		8552	8723	10677	65	99	9000	287.5	3279	8876	10708	11127		11915	3800	6217	6217	8515	8636	8823

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Probe SEQ ID NO:	SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
9923	22419	35394	1.73	6.0E-33	6755609 NT		Mus musculus SRY-box containing gene 6 (Sox6), mRNA
1814	14404		1,48	5.0E-33	BF373515.1	EST_HUMAN	QV1-FT0169-100700-271-#02 FT0169 Homo saplens cDNA
1925	14510		1.2	5.0E-33	11141884 NT	NT	Homo sapiens solute carrier family 5 (choline transporter), member 7 (SLC5A7), mRNA
1943				5.0E-33		NT	Homo sapiens spermidine synthase (SRM) mRNA
1943	14527	27083	1.32	5.0E-33	4507208 NT	NT	Homo sapiens spermidine synthase (SRM) mRNA
4132	16724	29178	8.0	5.0E-33	-33 AB014599.1	NT	Homo sapiens mRNA for KIAA0689 protein, partial cds
10147	22842	35632	92'0	5.0E-33	-33 AW 264679.1	EST_HUMAN	xq33f11.x1 NCI_CGAP_Lu28 Homo sapiens cDNA clone IMAGE:2752461 3'
10147		35633	0.76	5.0E	-33 AW 264679.1	EST_HUMAN	xq33(11.x1 NCL_CGAP_Lu28 Homo sapiens cDNA clone IMAGE:27524613'
11720	24120		1 43	£E-30 \$	IN 58055111	L Z	Homo sapiens ubiquitin protein ligase E3A (human papilloma virus E6-associated protein, Angelman sundroma (UBE3A) mRNA
1187			1.82		AI 163207 2	Į.	Home seniors chromosome 21 sement HS21C007
	Į			30.1			
2170	14747	27316	1.67	4.0E-33	E-33 4758987 NT	L	Homo sapiens RAB1, member RAS oncogene family (RAB1) mRNA
	l						ab51b11.r1 Stratagene lung carcinoma 937218 Homo sapiens cDNA clone IMAGE:844317 5' similar to
2464	15031		2.24	4.0E-33	4.0E-33 AA626621.1	EST_HUMAN	contains Alu repetitive element;contains MER28.b2 MER28 repetitive element ;
2582	15145	27713		4.0E	-33 AL 163210.2	IN	Homo sapiens chromosome 21 segment HS21C010
4581	17164		1.39	4.0E	:-33 AW 293349.1	EST_HUMAN	UI-H-BI2-ahl-c-03-0-UI.s1 NCI_CGAP_Sub4 Homo sapiens cDNA clone IMAGE:2727149 3'
	ŧ						271608.r1 Stratagene colon (#937204) Homo sapiens cDNA clone IMAGE:510038 5' similar to
5599	18229	_ '	21.96		4.0E-33 AA053053.1	EST HUMAN	gb:X12671_ma1 HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN A1 (HUMAN);
6526	19126	31919	0.76	4.0E-33	8393994 NT	NT	Homo sapiens polymerase (DNA directed), alpha (POLA), mRNA
6526	L	31920	0.76	4.0E-33	8393994 NT	N	Homo sapiens polymerase (DNA directed), alpha (POLA), mRNA
1128	13731		5.55		3.0E-33 BE350127.1	EST HUMAN	ht09g01.x1 NCI_CGAP_Kid13 Homo sapiens cDNA clone IMAGE:3146256 3' similar to contains MER29.b3 MER29 repetitive element;
	l						ht09g01.x1 NCI_CGAP_Kid13 Homo sapiens cDNA clone IMAGE:3146256 3' similar to contains MER29.b3
1129	13731		3.84		3.0E-33 BE350127.1	EST_HUMAN	MER29 repetitive element;
2483	15468		1.01	3.0E-33	3.0E-33 AV647851.1	EST_HUMAN	AV647851 GLC Homo sapiens cDNA clone GLCBCF09 3'
10336	22830	35824	1.19		3.0E-33 AA861510.1	EST HUMAN	ak32b12.s1 Soares_testis_NHT Home sapiens cDNA clone IMAGE:1407647 3' similar to TR:Q13579 Q13579 MARINER TRANSPOSASE.:
							qb67g03.x1 Soares_fetal_heart_NbHH19W Homo sapiens cDNA clone IMAGE:1705204.3' similar to
19	12698		0.82	2.0	E-33 AI160189.1	EST_HUMAN	contains OFR.tt OFR repetitive element;
109	12698		2.24		2.0E-33 A1160189.1	EST HUMAN	qb67g03.x1 Soares fetal_heart_NbHH19W Homo saplens cDNA clone IMAGE:1705204.3' similar to contains OFR.t1 OFR repetitive element;
1415	14008	26536	2.48		E-33 AA010242.1	EST_HUMAN	208e08.r1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:430214 5'
1415	14008		2.48		2.0E-33 AA010242.1	EST_HUMAN	208e08.r1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:430214.5'
4510					2.0E-33 BE159039.1	1 1	MR0-HT0405-160300-202-408 HT0405 Homo sapiens cDNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
5122	17694	30131	12.23	2.0E-	33 AA626683.1	EST_HUMAN	ab51g11.11 Stratagene lung carcinoma 937218 Homo sapiens cDNA clone IMAGE:844388 5' similar to gb:x00734_cds1 TUBULIN BETA-5 CHAIN (HUMAN);
5255	17818	30242	1.83	2.0E-33	11421332 NT	LN	Homo sapiens hypothetical protein SIRP-b2 (SIRP-b2), mRNA
5255	17818	30243	1.93		2.0E-33 11421332 NT	NT	Homo sapiens hypothetical pratein SIRP-b2 (SIRP-b2), mRNA
6555	19153	31949	1.5		AI277492.1	EST_HUMAN	q96d01.x1 Soares_NhHMPu_S1 Homo sapiens cDNA clone IMAGE:18801613'
9029	21566		2.63		33 AI052256.1	EST_HUMAN	oz21403.x1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:1675973 3' similar to gb:M29536 TRANSLATIONAL INITIATION FACTOR 2 BETA SUBUNIT (HUMAN);
10497		36000		2.0E-	11421332 NT	LN	Homo sapiens hypothetical protein SIRP-b2 (SIRP-b2), mRNA
10497	L	36001			11421332 NT	LN	Homo sapiens hypothetical protein SIRP-b2 (SIRP-b2), mRNA
10982	23486	36525	8.1	2.0E-	33 AA453647.1	EST_HUMAN	zx48f05.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:795489 3' similar to TR:G1263081 G1263081 MARINER TRANSPOSASE.;
	<u> </u>				22 A FOODEDR 4	T) 4	Homo saplens X-linked anhidroitic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat
ĵ	1		00	ין טור	Ar003526.1	ž !	regions
7437		32827	1.21	Ä	33 M13975.1	E !	Homo sapiens protein kinase C beta-ii type (PKKCB1) mKNA, complete cos
9934					33 U60822.1	Ł	Human dystrophin (DMD) gene, exons 7, 8 and 9, and partial cds
11202					1.0E-33 AW996818.1	EST_HUMAN	QV3-BN0047-230200-102-b03 BN0047 Homo sapiens cDNA
11515	23963	37033	5.83	1 0E	1.0E-33 U60822.1	NT	Human dystrophin (DMD) gene, exons 7, 8 and 9, and partial cds
12214	24437		1.6	1.0E	-33 A1927191.1	EST_HUMAN	wo88c06.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2462410 3'
12403	12688		2.81	1.0E	33 AF003528.1	Į	Homo sapiens X-linked anhidroitic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
12434		30913		1.06	-33 AV727809.1	EST_HUMAN	AV727809 HTC Homo sapiens cDNA clone HTCCNC12 5
12628			4.56		9.0E-34 AJ271735.1	N	Homo sapiens Xq pseudoautosomal region; segment 1/2
1494	14086		2.3	7.0E	-34 T70845.1	EST_HUMAN	yd15e05.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:108320 5'
9911	14086	5992	99'0	7.0E	-34 T70845.1	EST_HUMAN	yd15e05.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:108320 5'
11989	24289		1.75		7.0E-34 H12866.1	EST_HUMAN	yj14c10.r1 Soares placenta Nb2HP Home sapiens cDNA clone IMAGE:148722 5'
496	13128				6.0E-34 U10991.1	NT	Human G2 protein mRNA, partial cds
496	13128	25617	1.61	6.0E-34	6.0E-34 U10991.1	NT	Human G2 protein mRNA, partial cds
11797	L		1.92	6.0E	-34 U03686.1	NT	Mus musculus DAB/2J hair-specific (hacl-1) gene
1923			2.5	5.0E	7706500 NT	NT	Homo sapiens Npw38-binding protein NpwBP (LOC51729), mRNA
5218	17783			5.0E	-34 U30883.1	NT	Human splicing factor SRp55-1 (SRp-55) mRNA, complete cds
8800	21339			5.0E	-34 AF078779.1	N-I	Rattus norvegicus putative four repeat ion channel mRNA, complete cds
10534		36084	2.26	5.0E	-34 AB037856.1	FZ	Homo sapiens mRNA for KIAA1435 protein, partial cds
11133	23641	L	1.9	5.0E	-34 AL163209.2	N	Homo sapiens chromosome 21 segment HS21C009
2041	14623	27192	3.42		4.0E-34 AI804667.1	EST_HUMAN	tt94c06.x1 NCI_CGAP_Pr28 Homo sapiens cDNA clone IMAGE:2249194 3'

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Single Exon Probes Expressed in Fetal Liver

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Table 4
Single Exon Probes Expressed in Fetal Liver

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
4127	16719		79.0	6.0E-35	-35 AW297191.1	EST_HUMAN	UI-H-BW0-ajd-d-09-0-UI.s1 NCI_CGAP_Sub6 Homo sapiens cDNA clone IMAGE:2731433 3'
7838		33285		6.0E-35	6005921 NT	NT	Homo sapiens triple functional domain (PTPRF interacting) (TRIO), mRNA
8643	L	34101	0.49	6.0E-35	6.0E-35 X94232.1	LΝ	H.sapiens mRNA for novel T-cell activation protein
8643	L	34102	0.49		-35 X94232.1	1N	H.sapiens mRNA for novel T-cell activation protein
9584					6.0E-35 AB002364.1	LN	Human mRNA for KIAA0386 gene, partial cds
9817	L	35296	2.42	90.9	-35 AB037786.1	١	Homo sapiens mRNA for KIAA1365 protein, partial cds
152	L		e,	90.S	-35 AF154830.1	. LN	Homo sapiens carbamyi phosphate synthetase I mRNA, complete cds
1747	14337	26883		5.0E	-35 X63392.1	FN	H.sapiens Immunoglobulin kappa light chain variable region L14
3043	15659		1.39	5.0E-35	6912639 NT	TN	Homo sapiens Ring1 and YY1 binding protein (RYBP), mRNA
							Homo espiens cik2 kinase (CLK2), propin1, cote1, glucocerebrosidase (GBA), and metaxin genes, complete and minore and ninconsentations and phomposporality of partial and phomposporality.
4489	17083	29533	1.81	5.0E-35	5.0E-35 AF023268.1	Ż	cds, merchin pacture) one and gracection colleged by colleged on an american pacture.
8125				5.0E-35	5.0E-35 BE890992.1	T_HUMAN	801431984F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3917229 5'
8151		33806			5.0E-35 AI208765.1	EST_HUMAN	qg38c05.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1837448 3' simitar to SW:Y249_HUMAN Q92539 HYPOTHETICAL PROTEIN KIAA0249.;
91.61	<u> </u>				5 0F.35 AI208785 1	FST HIMAN	og38c05.X1 Sogres_testis_NHT Home sapiens cDNA clone IMAGE:1837448 3' similar to SW:Y249_HUMAN Q92539 HYPOTHETICAL_PROTEIN KIAA0249.
11058	1				5.0E-35 AA001786.1	EST HUMAN	zh84112.r1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:428015 5'
1481	L.	26613			4.0E-35 BE257907.1	EST HUMAN	601109719F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3350405 5
1855				<u> </u>	4.0E-35 H91193.1	EST HUMAN	уи98а07.r.1 Soaras fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:241236 5' similar to contains PTR5 repetitive element;
	<u>L</u>						Homo sapiens X-linked anhidrotitic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat
4927	17502		86.0	١	4.0E-35 AF-003528.1	Z	regions
7260	19788		2.08	9.4	E-35 BE350127.1	EST_HUMAN	ntuegot xt NCL_CGAP_not 3 homo septens convictional and CES 140200 3 similar to contains with respect
8455		33913			4.0E-35 AL046596.1	EST_HUMAN	DKFZp434L148_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434L148 5'
1623			ľ		3.0E-35 BE268182.1	EST_HUMAN	601125280F1 NIH_MGC_8 Hamo sapiens cDNA clone IMAGE:3345083 5
2369	14940		2.22		3.0E-35 AF224492.1	NT	Homo sapiens phospholipid scramblase 1 gene, complete cds
5543	18175	30589	22.73		3.0E-35 BF433100.1	EST_HUMAN	7n25a09.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3565381 3' similar to TR:Q9QZH7 Q9QZH7 F-BOX PROTEIN FBL2.;
5543	18175	30590	22.73		3.0E-35 BF433100.1	EST_HUMAN	7n25a09.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3565361 3' similar to TR:Q9QZH7 Q9QZH7 F-BOX PROTEIN FBL2.;
900	ŀ	İ			3.0E-35 AF223391.1	LZ	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and pertial cds, alternatively spliced

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יישיי בייטי בייטי בייטי פייטי	Top Hit Descriptor	wr03a05.x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2480432 3' similar to SW:POL1_HUMAN P10266 RETROVIRUS-RELATED POL POLYPROTEIN ICONTAINS: REVERSE TRANSCRIPTASE	K6932F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA clone K6932 5' similar to REPETITIVE ELEMENT	A971F Heart Homo sapiens cDNA clone A971	Homo sapiens mRNA for Gab2, complete cds	Homo sapiens Grb2-associated binder 2 (KIAA0571) mRNA	Homo sapiens Grb2-associated binder 2 (KIAA0571) mRNA	Homo sapiens mRNA for KIAA0895 protein partial cds	TCBAP2E4328 Pediatric pre-B cell acute lymphoblastic leukemia Baykor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP4328	TCBAP2E4328 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens	CUNA CIONE I UBAPP4328	NA OPERATOR SERVICES REPORT INTELS HOME SERVICES CONA CIONE IMAGE: 274079 5	QV0-B (0/01-210400-199-b04 B10701 Hamo sapiens cDNA H serviens PROS, 37 mBNA	Homo sapiens Grb3-sescieled hinder 2 (VIA & 0674)	Homo saniens Crt2 associated hinder 2 (KIA 40674)	Homo sapiens chromosome 21 segment HS21C010	K6932F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA clone K6932 5' similar to REPETITIVE ELEMENT	fmfc16 Regional genomic DNA specific cDNA library Homo sapiens cDNA clone CR12.1	fmfc16 Regional genomic DNA specific cDNA library Homo saniens cDNA clane CR12.1	IL2-ST0162-131099-006-d12 ST0162 Homo sapiens cDNA	IL2-ST0162-131099-008-412 ST0162 Homo sapiens cDNA	yd93a01.11 Soares fetal liver spleen 1NFLS Homo sepiens cDNA clone IMAGE:115752 5' similar to SP:444282 A44282 RFTROVIRIIS.REI ATEO BOIL DOI VODOTEIN DILIAAN.	Homo sapiens hypothetical protein (LOC51233) mRNA	ht09g01.x1 NCI_CGAP_Kid13 Hamo sapiens cDNA clone IMAGE:3146256 3' similar to contains MER29.b3 MER29 repetitive element:	ht09g01.x1 NCI_CGAP_Kid13 Homo sapiens cDNA clone IMAGE:3146256 3' similar to contains MER29 b3 MER29 repetitive element:	Homo sapiens transcription elongation factor B (SIII), polypeptide 1-like (TCEB1L) mRNA
	Top Hit Database Source	EST_HUMAN	EST HUMAN	EST HUMAN	N F	F	F	N _T	EST HUMAN	100	EST HUMAN	LOS TOWNS	EST HUMAN	IN	IN	NT	EST HUMAN	EST_HUMAN	EST HUMAN	EST_HUMAN	EST HUMAN	EST HUMAN	NT	EST HUMAN	EST HUMAN	N
B	Top Hit Acession No.	3.0E-35 AW003063.1	2.0E-35 N88965.1	2.0E-35 T11909.1	E-35 AB018413.1	6912459 NT		AB02070	2.0E-35 BE247575.1		1		2.0E-35 X59417.1	6912459 NT	6912459 NT	2.0E-35 AL183210.2	-35 N88965.1	1.0E-35 AA631949.1	-35 AA631949.1	1.0E-35 AW389473.1	1.0E-35 AW389473.1	TB7947.1	7705994 NT	-35 BE350127.1	1.0E-35 BE350127.1	8006030 NT
	Most Similar (Top) Hit BLAST E Value	3.0E-35	2.0E-35	2.0E-35	2.0E-35	2.0E-35	2.0E-35	2.0E-35	2.0E-35	30.00	2.0E-33	200 36	2.0E-35	2.0E-35	2.0E-35	2.0E-35	2.0E-35	1.0E-35	1.0E-35	1.0E-35	1.0E-35	1.0E-35 T87947.1	1.0E-35	1.0E-35	1.0E-35	1.0E-35
	Expression Signal	8.0	1.18	1.13	4.88	0.79	0.79	0.85	0.86	8	8 6	448	414	1.34	1.34	42.99	4.1	5.95	5.95	55.23	55.23	1.15	1.98	1.36	1.36	1.03
	ORF SEQ ID NO:	35568	25269	26344			28438		29049	usuac		31110		28437	28438		25269	25194	25195	25903	25904		27710	27917	27918	28262
	Exon SEQ ID NO:	22573	15407	13829				16216	16579	16579	17358	18306	23207	15961	15961	24563	15407	12730	12730	13401	13401	13555	15141	15348	15348	15790
	Probe SEQ ID NO:	10078	113	1230	2259	3353	3353	3613	3981	3981	4777	5770	10675	11663	11663	12405	12525	20	ଞ	782	782	942	2579	2795	2795	3177

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Single Exon Probes Expressed in Fetal Liver

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
3199	15811	28284	1.52	1.0E-35	1.0E-35 AV650422.1	EST_HUMAN	AV650422 GLC Homo sapiens cDNA clone GLCCEF06 3*
3199	15811	28285	1.52	1.0E-35	1.0E-35 AV650422.1	EST_HUMAN	AV650422 GLC Homo sapiens cDNA clone GLCCEF06 3'
4513			5.19	1.0E-35	7656905 NT	NT	Mus musculus activin receptor interacting protein 1 (Arip1-pending), mRNA
4513	L		5.19	1.0E-35	7656905 NT	LN	Mus musculus activin receptor interacting protein 1 (Arip1-pending), mRNA
5701			1.31	1.0E-35	11526236 NT	N	Homo sapiens chromatin assembly factor 1, subunit B (p60) (CHAF1B), mRNA
7069	L	L	0.73	1.0E-35	AW808665.1	EST_HUMAN	MR1-ST0111-111199-011-d07 ST0111 Homo sapiens cDNA
7069	18088	30445	0.73	1.0E-35	1.0E-35 AW 808665.1	EST_HUMAN	MR1-ST0111-111199-011-d07 ST0111 Homo sapiens cDNA
7496	20019	32883	9.0	1.0E-35		NT	Homo sapiens mRNA for KIAA1279 protein, partial cds
7637	乚	33033	86.0	1.0E-35	11418002 NT	LΝ	Homo sapiens KIAA0645 gene product (KIAA0645), mRNA
9481	┖	34941		1.0E-35	1.0E-35 AU158595.1	EST_HUMAN	AU158595 PLACE3 Homo sapiens cDNA clone PLACE3000382 3'
9461	24794	34942		1.0E-35	1.0E-35 AU158595.1	EST_HUMAN	AU158585 PLACE3 Hamo sapiens cDNA clone PLACE3000382 3'
	I					14074111	nas06006.x1 NCI_CGAP_Pr28 Homo sapiens cDNA clone IMAGE:3254051 3' similar to TR:O31341
10470	22964	35974	0.57	1.0E-35	1.0E-35 BF589594.1	EST_HUMAN	US1341 BETA-CALACT USIDASE
							naa06d06.x1 NCI_CGAP_Pr28 Homo sapiens cDNA clone IMAGE:3254051 3' similar to TR:O31341
10470	22964	35975	0.57	1.0E-35	1.0E-35 BF 589594.1	EST_HUMAN	USIS41 BEIA-CALACI USIDASE,
11601	24044		4.48	1.0E-35	1.0E-35 AI525119.1	EST_HUMAN	promrna-7.001.r bytumor Homo sapiens cDNA 5'
11695	L		1.3	1.0E-35	11418274 NT	NT	Homo sapiens fibulin 1 (FBLN1), mRNA
12287	24489		1.87		1.0E-35 BE792832.1	EST_HUMAN	601584833F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3938985 5'
	L_					1	ET 1.30 On management of colonia of colonia based of colonia and the colonia c
9156		34635		8.0E~36	AA34646	ESI HOMAN	COLORGO DIPLOCATION I TOTO SEPTEMBLES COLORGO SETTING TO SITTING TO STORY OF THE ST
10060	22555		2.13	8.0E-36	7706259 NT	LΝ	Homo sapiens CGI-09 protein (LOC51605), mRNA
2957	15573	28050	1.15	7.0E-36	7.0E-36 AW857579.1	EST_HUMAN	CM1-CT0315-091289-063-407 CT0315 Homo sapiens cDNA
3152	L		5.38	7.0E-36	4557498 NT	NT	Homo sapiens C-terminal binding protein 2 (CTBP2) mRNA
7650	20162	33049	6.73	7.0E-36	7.0E-36 U06672.1	NT	Human carcinoembryonic antigen gene family member 12 (CGM12) gene, exons L and L/N
7650	20162	33050	6.73	7.0E-36	7.0E-36 U06672.1	L	Human carcinoembryonic antigen gene family member 12 (CGM12) gene, exons L and L/N
12070	24350	30965	5.15	7.0E-	36 AF052051.1	NT	Homo sapiens glutathlone transferase A4 gene, exon 1
2048	14630		2.5		7706622 NT	TN	Homo sapiens ninjurin 2 (NINJ2), mRNA
2461				6.0E-	36 AB035346.1	LN TN	Homo sapiens TOLB gene, exon 12
3701	L	28770	96:0	6.0E-36	36 BF515101.1	EST_HUMAN	UI-H-BW 1-env-<-12-0-UI.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3083542 3'
5534	18166	30580	9.75		6.0E-36 AI435169.1	EST HUMAN	th93b06.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA done IMAGE:2128195 3' similar to gb:M11949 PANCREATIC SECRETORY TRYPSIN INHIBITOR PRECURSOR (HUMAN);
3		İ		100		DAT HIMAN	ho06h02.x1 NCI_CGAP_Co14 Homo sapiens cDNA clone IMAGE:3036627 3' simiter to SW:IMA2_HUMAN P52292 IMPORTIN AI PHA-2 SUBUNIT
300	1			90.0	ı	- 1014	Home seniors swertin precursor mRNA complete cds
8586	21125	34045	2.54	5.0E-	30 AF208101.1		I tono appears of royal produced, maken, compose occ

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
10125	22620		0.54	6.0E-36	-36 C16927.1	EST_HUMAN	C16927 Clontech human aorta polyA+ mRNA (#5572) Homo sapiens cDNA clone GEN-535C11 5'
11422	23873	36936		6.0E-36	-36 Al380499.1	EST_HUMAN	tf95c09.x1 NCI_CGAP_CLL1 Homo saplens cDNA clone IMAGE:2107024 3' similar to contains MER9.b2 MER9 repetitive element ;
143	12808	25298	12.3	5.0E-36	-36 AJ271735.1	FX	Homo sapiens Xq pseudoautosomal region; segment 1/2
2779	15332	27901	15.02	5.0E-36	-36 BE388436.1	EST_HUMAN	601285567F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3607289 5'
3672	16273	28739	1.07	5.0E-38	-36 AL163209.2	TN	Homo sapiens chromosome 21 segment HS21C009
4903	17478		1.6	5.0E-36	5729729 NT	NT	Homo sapiens API5-like 1 (API5L1), mRNA
4903	17478		1.6	5.0E-36	5729729 NT	NT	Homo sapiens API5-like 1 (API5L1), mRNA
11661	12808	25296	4.05	5.0E-36	:-36 AJ271735.1	TN	Homo sapiens Xq pseudoautosomal region; segment 1/2
11963	24285	31024	2.88	5.0E-36	11417862 NT	LN LN	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
1267	13864	26381	2.14	4.0E-36	4.0E-36 BE010038.1	EST_HUMAN	PM3-BN0176-100400-001-g04 BN0176 Hamo sapiens cDNA
1491	14083	28624	1.88	4.0E-36	-36 P10266	SWISSPROT	RETROVIRUS-RELATED POL POLYPROTEIN [CONTAINS: REVERSE TRANSCRIPTASE ; ENDONUCLEASE]
1687	14279			4.0E-36	-36 BE382574.1	EST HUMAN	601298574F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3628386 5'
2264	14838			4.0E-36	4.0E-36 AW247772.1	EST HUMAN	2820020.5prime NIH_MGC_7 Hamo sapiens cDNA clone IMAGE:2820020 5'
3397	16005	28486	0.83	4.0E-36	4.0E-36 BE389299.1	EST_HUMAN	601282266F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604168 5'
3397	16005	28487	0.83	4.0E-36	4.0E-36 BE389299.1	EST_HUMAN	601282266F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604168 5'
4866	17442	29893	0.57	4.0E-36	4.0E-36 AL163204.2	NT	Homo saplens chromosome 21 segment HS21C004
5310	17872	30294	0.58	4.0E-36	4.0E-36 AA905361.1	EST_HUMAN	oko5b11.s1 Soares_NFL_T_GBC_S1 Horno sapiens cDNA clone IMAGE:1506909 3' simillar to SW:D3HI_RAT P29266 3-HYDROXYISOBUTYRATE DEHYDROGENASE PRECURSOR;
5892	18515		0.94	4.0E-36	4.0E-36 R64023.1	EST HUMAN	y19f05.r1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:139713 5'
6205	18815	31586	2.19	4.0E-36	11497041 NT	TN	Homo saplens a disintegrin and metalloproteinase domain 22 (ADAM22), trancript variant 3, mRNA
7649	20161	33048	1.77	4.0E-36		LΝ	Human platelet Glycoprotein IIb (GPIIb) gene, exons 2-29
8490	21029	33947	1.15	4.0E-36	4.0E-36 D87675.1	TN	Homo saplens DNA for amyloid precursor protein, complete cds
8490	21029		1.15	4.0E-36	E-36 D87675.1	LN	Homo saplens DNA for amyloid precursor protein, complete cds
10867	23388	36403	2.36	4.0E-36	4.0E-36 AA400370.1	EST_HUMAN	zu69c10.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:743250 5'
11981	24292		1.46	4.0E-36	11420516 NT	ΤN	Homo sapiens nuclear factor of activated T-cells, cytoplasmic 2 (NFATC2), mRNA
12026	24872		6.32	4.0E-36	4.0E-36 AV753629.1	EST_HUMAN	AV753629 TP Homo sapiens cDNA clone TPGABH01 5
725	13345	25837	2.82	3.0E-36	3.0E-36 AF099810.1	١	Homo sapiens neurexin III-aipha gene, partial cds
1545	14137	26671	1.01	3.0E-36	3.0E-36 AF110239.1	LΝ	Homo sapiens calcium/calmodulin-stimulated cyclic nucleotide phosphodiesterase (PDE1A) gene, partial cds
1545	14137	26672	1.01	3.0E-36	3.0E-36 AF110239.1	۲	Homo sapiens calcium/calmodulin-stimulated cyclic nucleotide phosphodiesterase (PDE1A) gene, partial cds
2338	1			3.0E-36	7662401	NT	Homo sapiens KIAA0952 protein (KIAA0952), mRNA
	1	l					

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Top Hit Descriptor	Mus musculus junctophilin 1 (Jp1-pending), mRNA	601458531F1 NIH_MGC_66 Homo sepiens cDNA clone IMAGE:3882086 5	601106343F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3342706 5'	QV0-OT0030-240300-174-h04 OT0030 Homo sapiens cDNA	Mus musculus p47-phox gene, complete cds	EST06648 Infant Brain, Bento Soares Homo sapiens cDNA clone HIBBJ28 5' end	yc44a07.r1 Stratagene liver (#937224) Homo sapiens cDNA clone IMAGE:83508 5	UI-H-BW 1-amu-a-11-0-UI.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3071132 3	Homo sapiens ubiquitin specific protease 13 (isopeptidase T-3) (USP13) mRNA	Homo saplens ubiquitin specific protease 13 (isopeptidase T-3) (USP13) mRNA	601300938F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3635480 5	RC1-HT0217-131199-021-h07 HT0217 Homo sapiens cDNA	RC1-HT0217-131199-021-h07 HT0217 Hamo sapiens cDNA	602136483F1 NIH_MGC_83 Hamo sapiens cDNA done IMAGE:4272888 5'	xp57e06.x1 NCI_CGAP_Ov39 Hamo sapiens cDNA done IMAGE:2744434 3' similar to WP:C13F10.7	CE08148;	Homo sapiens human endogenous retrovirus W proCG-19 protease (pro) gene, partial cds	DKFZp434G022_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434G022 5	Homo sapiens zinc finger protein 147 (estrogen-responsive finger protein) (ZNF147) mRNA	wb37c12.x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2307862 3' similar to contains Alu repetitive element,	vg36g10.r1 Soares infent brain 1NIB Homo sapiens cDNA clone IMAGE:34529 5' simiter to SP:CAHP HUMAN P35219 CARBONIC ANHYDRASE-RELATED PROTEIN;	vg38g10.r1 Soares infant brain 1NIB Homo sapiens cDNA clone IMAGE:34529 5' similar to SP:CAHP HUMAN P35219 CARBONIC ANHYDRASE-RELATED PROTEIN ;	DKFZp781A229_r1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp761A229 5	2051a12.r1 Stratagene endothelial cell 937223 Homo sapiens cDNA clone IMAGE:590398 5'	zo51a12.11 Stratagene endothelial cell 937223 Homo sapiens cDNA clone IMAGE:590398 5'	nc60e08.r1 NCI_CGAP_Pr1 Homo sapiens cDNA clone IMAGE:745870	nc60e08.rt NCI_CGAP_Pr1 Homo sapiens cDNA clone IMAGE:745670	AU141888 THYRO1 Homo sapiens cDNA clone THYRO1001033 5	AU141688 THYRO1 Homo saplens cDNA clone THYRO1001033 5'	xe82b07.x1 NCI_CGAP_Bm35 Homo sapiens cDNA clone IMAGE:2814357 3	QV3-NN1023-010600-199-h01 NN1023 Homo sepiens cDNA
Top Hit Database Source	LZ.	EST_HUMAN	EST_HUMAN	EST_HUMAN	NT	EST_HUMAN	EST_HUMAN	EST HUMAN	TN	LN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN		EST_HUMAN	NT	EST_HUMAN	LN	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN
Top Hit Acession No.	T0181139 NT	-36 BF035327.1	-36 BE259287.1	2.0E-36 AW880376.1	4F267747.1	2.0E-36 T08756.1	2.0E-36 T69629.1	2.0E-36 BF512794.1	4507848 NT	4507848 NT	1.0E-36 BE409310.1	1.0E-36 BE146523.1	1.0E-36 BE148523.1	1.0E-36 BF673761.1		1.0E-36 AW 276898.1	1.0E-36 AF156962.1	1.0E-36 AL04446.1	4827064 NT	-36 A!867714.1	36 R25012 1	-38 R25012 1	-36 AL 120542.1	1.0E-36 AA148034.1	1.0E-36 AA148034.1	-36 AA420467.1	-36 AA420487.1	-36 AU141688.1	-36 AU141688.1	1.0E-36 AW103658.1	1.0E-38 BF364169.1
Most Similar (Top) Hit BLAST E Value	3.0E-38	3.0E-38	2.0E-38	2.0E-36	2.0E-38 /	2.0E-38	2.0E-36	2.0E-36	2.0E-38	2.0E-36	1.0E-36	1.0E-36	1.0E-36	1.0E-38		1.0E-36	1.0E-36	1.0E-36	1.0E-38	1.05-36	1 0F-36	108-38	1.0E-36	1.0E-36	1.0E-36	1.0E-36	1.0E-36	1.0E-36	1.0E		
Expression Signal	7.36	2.08	3.78	9.22	2.55	4.22	12.01	96.0	9.0	9.0	2.35	0.91	0.91	1.34		1.75	1.23	98.0	0.97	3.97	1.13	1.13	0.7	3.18	3.18	1.22	1.22	0.73	0.73		
ORF SEQ ID NO:	29631			L	L	L	32089		34817	34818	26049		L	27392				31252		l	31018								L		35513
Exon SEQ ID NO:	17184	1	L	1	18304		ļ	21824	21867	ı	13531	L	L	14818	L	15102	15997	18526	1	L	1	1		L	L	上	20539		ı		
Probe SEQ IO NO:	4800	10985	3204	5094	5677	8012	0698	9310	9468	9468	918	2190	2190	2243		2538	3388	5904	8059	8330	652	653	6783	8 6	282	7997	7997	8120	8120	8959	10023

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	Top Hit Descriptor	RC3-CT0279-040500-017-a10 CT0279 Homo sapiens cDNA	RC3-CT0279-040500-017-a10 CT0279 Homo sapiens cDNA	CM3-NN0061-140400-147-h12 NN0061 Homo sapiens cDNA	UI-HF-BN0-ale-c-03-0-UI.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3079277 51	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA	Horno sapiens chromosome 21 segment HS21C013	Homo sapiens Sad1 unc-84 domain protein 2 (SUN2) mRNA, partial cds	ws80b07.x1 NCI_CGAP_Co3 Homo sapiens cDNA clone IMAGE:2504245 3'	ws80b07.x1 NCI_CGAP_Co3 Homo sapiens cDNA clone IMAGE:2504245 3	73D4 Human retina cDNA Tsp5091-cleaved sublibrary Homo sapiens cDNA not directional	Homo sapiens chimerin (chimeerin) 2 (CHN2) mRNA	CM0-UT0003-050800-503-d09 UT0003 Homo sapiens cDNA	ht09g01.x1 NC_CGAP_Kid13 Homo sapiens cDNA clone IMAGE:3148256 3' similar to contains MER29.b3 MFR29 repetitive alement:	https://www.nci.com/samesamesamesamesamesamesamesamesamesame	MER29 repetitive element;	RC1-CN0008-210100-012-e09_1 CN0008 Homo sapiens cDNA	H.sapiens DMA, DMB, HLA-Z1, IPP2, LMP2, TAP1, LMP7, TAP2, DQB, DQB2 and RING8, 9, 13 and 14 Innes	DKFZp434E0422_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434E0422 5	Homo sapiens Jun dimerization protein gene, partial cds; cfos gene, complete cds; and unknown gene	Homo sapiens jun dimerization protein gene, partial cds; cfos gene, complete cds; and unknown gene	wk25b11.x1 NCI_CGAP_Brn25 Home sapiens cDNA clone IMAGE:2413341 3' similar to centains PTR5.t2 PTR5 repetitive element :	tm87g03.x1 NCI_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2165140.3' similær to contains L1.b3 L1 repetitive element;	y/25e02.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:127850 5'	Homo sapiens protocadhein alpha 10 altemate Isoform (PCDH-alpha10) mRNA, complete cds	Homo sapiens Sad1 unc-84 domain protein 2 (SUN2) mRNA, partial cds	EST178035 Colon carcinoma (HCC) cell line Homo sapiens cDNA 5' end	EST178035 Colon carcinoma (HCC) cell line Homo sapiens cDNA 5' end	AV750211 NPC Homo sapiens cDNA clone NPCBGH09 5'
	Top Hit Database Source	EST HUMAN R	EST_HUMAN R	EST_HUMAN C	EST_HUMAN U		NT	Ĭ	EST_HUMAN W	Г	Г		EST_HUMAN C		Т		Г		T HUMAN	T	I	EST HUMAN P	\Box	EST_HUMAN Y	Г	NT			EST_HUMAN A
	Top Hit Acession No.		-36 AW855868.1	Γ	1.0E-36 AW 504143.1	11418177 NT	1.0E-36 AL163213.2		9.0E-37 AW009277.1		9.0E-37 W22618.1	4757979 NT	37 BE698077.1	37 BE350107 1	T		-37 AW840840.1	37 X87344 1	-										-37 AV750211.1
-	Most Similar (Top) Hit BLAST E Value	1.0E-36	1.0E-36	1.0E-36/	1.0E-36/	1.0E-36	1.0E-36	1.0E-36/	9.0E-37	9.0E-37	9.0E-37	8.0E-37	8.0E-37	A 0F-37	0.00	8.06-37	8.0E-37	B 05-37	7.05-37	7.0E-37	7.0E-37	7.0E-37	7.0E-37	6.0E-37	6.0E-37	6.0E-37	5.0E-37	5.0E-37	5.0E-37
	Expression Signal	0.71	0.71	3.55	4.94	6.11	6.19	3.59	1.94	1.94	1.63	1.01	1.58	4 0.2	70.1	4.02	6.7	25.8	2.3	1.55	1.55	7.78	3.74	2.5	0.54	3.85	4.92	4.92	0.85
	ORF SEQ ID NO:	35717	35718	36363	36844				32804			28488		31348		31349	31398	77075		26914		38180			33837		31622		34150
	SEO ID NO:	22726	22726	23347	L	L		24683	19940	l	24374	16006		18614	1	18614	18656	20387	L	[L .	23169	l	L	20917	L	18852		21230
	Probe SEQ ID NO:	10231	10231	10826	11258	11848	12316	12592	7415	7415	12113	3398	5458	2004	1000	5994	6037	707	1328	1780	1780	10837	10774	5304	8377	12455	6243	6243	8691

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Top Hit Descriptor	Homo sapiens glycine C-acetyftransferase (2-amino-3-ketobutyrate-CoA ligase) (GCAT), mRNA	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3	290504.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:448015 3'	ak09c02.s1 Soares_parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:14054423'	Homo sapiens chromosome 21 segment HS21C004	Homo sapiens chromosome 21 segment HS21C004	DKFZp434L2418_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434L2418	DKFZp434L2418_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434L2418	EST373222 MAGE resequences, MAGF Homo sapiens cDNA	601458531F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3862086 5'	at34c05.x1 Barstead colon HPLRB7 Homo sapiens cDNA clone IMAGE:2373896 3' similar to TR:Q13537 O13537 SIMILAR TO POGO ELEMENT. :	Homo sapiens mRNA for AML1, complete cds	Homo saniens mRNA for AMI 1, complete cds	AU131202 NT2RP3 Homo sapiens cDNA clone NT2RP3002186 5'	AU131202 NT2RP3 Homo seplens cDNA clone NT2RP3002166 5	Homo sabiens chromosome 21 segment HS21C047	Learning advantages DAEA as Marmily XXXIIIA (etargid 27-hydroydaea carahrotanding)	Homo septens cyclochrone F430, subramily AAV IIA (steroid 27-nydroxytase, cerebroteriumos) xanthomatosis), polypeptide 1 (CYP27A1b) mRNA	Homo sapiens DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 1 (DDX1) mRNA	EST52931 Fetal heart II Homo sapiens cDNA 5' end	601067534F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3453657 5	601067534F1 NIH_MGC_10 Homo saplens cDNA clone IMAGE:3453657 5	601869157F1 NIH_MGC_17 Homo saplens cDNA clone IMAGE:4111406 5	Homo sapiens J domain containing protein 1 isoform b (JDP1) mRNA, complete cds	Homo sapiens pescedillo (zebrafish) homolog 1, containing BRCT domain (PES1), mRNA	Homo sapiens chromosome 21 segment HS21C081	RC3-CT0347-210400-016-h03 CT0347 Homo sapiens cDNA	601448619F1 NIH_MGC_65 Hamo sapiens cDNA clone IMAGE:3852652 5	QV0-FN0180-280700-318-c10 FN0180 Homo sapiens cDNA	Mus musculus otogelin (Otog), mRNA	601072419F1 NIH_MGC_12 Home sapiens cDNA clone IMAGE:3458308 5	zp21b02.r1 Stratagene neuroepithelium (#837231) Homo sapiens cDNA clone IMAGE:610059 5' similar to contains L1.12 L1 repetitive element :
Top Hit Database Source			EST_HUMAN	EST_HUMAN	LN	ΤN	EST_HUMAN			EST_HUMAN	NAMIN TAR	Т	12	EST HIMAN	EST HIMAN	LIN		NT	LN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	LN	NT	N	EST_HUMAN	EST_HUMAN	EST_HUMAN	LN	EST_HUMAN	EST_HUMAN
Top Hit Acession No.	7657117 NT	37 AF149773.1		37 AA843806.1	37 AL163204.2	37 AL163204.2	37 AL048956.1	37 AL048956.1	37 AW961150.1	37 BF035327.1	27 A1740052 1	37 1789790 1		,	37 At 1434202 4	37 AU 131202.1	L 1002-7/ .E	4503210 NT	4826685 NT	37 AA346720.1	37 BE537764.1	-37 BE537764.1	-37 BF204032.1	-37 AF176013.1	11417972 NT	-37 AL 163281.2	-37 AW862082.1	-37 BE872365.1	-37 BF371719.1	7305360 NT	-37 BE546032.1	1.0E-37 AA171406.1
Most Similar (Top) Hit BLAST E Value	5.0E-37	5.0E-37	4.0E-37	4.0E-37	4.0E-37	4.0E-37	3.0E-37	3.0E-37	. 3.0E-37	3.0E-37	3 05 37	2.0E-37		2.0E-37	200.2	2.05-37	£.0L-0/	2.0E-37	2.0E-37	2.0E-37	2.0E-37	2.0E-37	2.0E-37	2.0E-37	2.0E-37	1.0E-37	1.0E-37	1.0E-37	1.0E-37	1.0E-37	1.0E-37	1.0E-37
Expression Signal	49.4	5.21	1.7	0.68	1.74	1.74	2.58	2.58	3.5	0.79	94	6.0	000	0.8	7 0	4.46	2	6.90	0.59	39.6	0.53	0.53	2.75	19.39	5.1	2.49	86.0	96.0	3.67	0.8	0.84	3.03
ORF SEQ ID NO:			27602			38452	27215	27216						22972		25,252		29029		32167			33429			27286		29282	L		33610	
Exon SEQ ID NO:	23323	24205	15035			1	L.				$oldsymbol{ol}}}}}}}}}}}}}}$	42070	\perp	130/8	L	13/22		16560	L		1	ı		_	L	L	1	! _		L	L	1
Probe SEQ ID NO:	10800	11843	2468	9278	10912	10912	2861	2081	2882	5128		ìg i	\$	404	2	1118	2002	3962	4330	6765	7938	7938	7981	11434	12633	2135	3231	4243	5075	6155	8156	8670

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1		7	_	_	-	_	_	_	•	_	_	_	_	_	_	_	_	_	_	_	_	_	•	_	_	_	-	_	_	,	,	_	-	_
	Top Hit Descriptor	Human somatic extechrome c (HCt) processed pseudoneae complete ada	CM3-FT0096-140700-243-d07 FT0096 Homo saniens cDNA	Rattus norvedicus mutidomain presynaptic cytomatrix protein Piccolo (1 0056769) mPNA	Homo sapiens Grb2-associated binder 2 (KIAA0571), mRNA	602018401F1 NCI CGAP Brn67 Homo sepiens cDNA clone IMAGE-4153002 5	Homo sapiens Grb2-associated binder 2 (KIAA0571) mRNA	yn51f07.r1 Soares adult brain N2b5HB55Y Homo satiens cDNA clone IMAGE 171073 5	601455722F1 NIH MGC 66 Homo sabiens cDNA clone IMAGE 3859348 5	Homo sapiens zinc finger protein ZNF287 (ZNF287) mRNA	Homo sapiens zinc finger protein ZNF287 (ZNF287) mRNA	Homo sapiens chromosome 12 open reading frame 3 (C120RE3) mRNA	Homo sapiens DNA for Human P2XM, complete cde	Homo sapiens adenviosuccinate Ivasa (ADSI.) mRNA	EST383908 MAGE resequences. MAGL Homo sabiens CDNA	Homo sapiens RIBIIR gene (partial), exon 8	601450148F1 NIH MGC 65 Home sapiens cDNA clone IMAGE 3854074 5	B. taurus mitochondrial aspartate aminotransferase mRNA complete CDS	B. taurus mitochondrial aspartate aminotransferase mRNA, complete CDS	Homo saplens chromosome 12 open reading frame 3 (C12ORF3) mRNA	Homo sapiens homeobox protein CDX4 (CDX4) gene, complete cds and flanking repeat regions	Homo saplens HIRA interacting protein 4 (dnaJ-like) (HIRIP4), mRNA	SSU72 PROTEIN	SSU72 PROTEIN	601157633F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3504272 5	Homo sapiens chromosome 21 segment HS21C100	CM3-FT0181-140700-241-f07 FT0181 Homo sapiens cDNA	w88b04.r1 Soares melanocyte 2NbHM Homo sapiens cDNA clone IMAGE: 249775 51	yv88b04.r1 Soares melanccyte 2NbHM Homo sapiens cDNA clone IMAGE:249775.5	Homo sapiens chromosome 21 segment HS21C048	Homo sapiens chromosome 21 segment HS21C048	Homo sapiens chromosome 12 open reading frame 3 (C12ORF3), mRNA	Homo sapiens chromosome 21 segment HS21C048	Homo sapiens SMT3 (suppressor of mif two 3, yeast) homolog 2 (SMT3H2), mRNA
	Top Hit Database Source	ŀ	EST HUMAN	LN	N	EST HUMAN	L	EST HUMAN	EST HUMAN	1	Ę	LN	L	L	EST HUMAN	N	EST HUMAN	N.	Į.	LN L	N	N.	SWISSPROT	SWISSPROT	EST_HUMAN	LN LN	EST_HUMAN	EST_HUMAN	EST_HUMAN	LN TN	Z	NT	IN	L
	Top Hit Acession No.	E-37 M22878.1	E-37 BE771814.1	10048482 NT	11436955 NT	-38 BF346221.1	11436955 NT	7.0E-38 H19092.1	E-38 BF033033.1	11425114 NT	11425114 NT	11435947 NT	E-38 AB002059.1	11418164 NT	5.0E-38 AW971819.1	-38 AJ237740.1	=	4.0E-38 Z25466.1		1435947	-38 AF003530.1	7549807 NT	-38 P53538	-38 P53538	-38 BE279301.1	-38 AL163300.2	-38 BF373664.1	-38 H85494.1	-38 H85494.1	-38 AL163248.2	-38 AL163248.2	11435947 NT	2.0E-38 AL163248.2	5902097 NT
	Most Similar (Top) Hit BLAST E Value	1.0E-37	1.0E-37	9.0E-38	8.0E-38	8.0E-38	8.0E-38	7.0E-38	6.0E-38	6.0E-38	6.0E-38	8.0E-38	6.0E-38	6.0E-38	5.0E-38	5.0E-38	5.0E-38	4.0E-38	4.0E-38	3.0E-38	3.0E-38	3.0E-38		3.0E-38	3.0E-38	3.0E-38	3.0E-38	3.0E-38	3.0E-38	3.0E-38	3.0E-38	3.0E-38	2.0E-38 /	2.0E-38
	Expression Signal	5.51	3.8	1.71	2.05	1.49	1.62	0.63	2.75	1.34	1.34	10.47	14.11	1.7	1.26	1.94	2.15	3.63	3.63	1.06	2.39	1.37	2.12	2.12	98.0	7.24	6.83	2.01	2.01	1.7	1.54	1.44	1.84	2.23
	ORF SEQ ID NO:	36125		31303	26378	27680		29336		31116	31117		30952	30797	25870		32506	25277	25278	26312			28987	28988		32254	32978	34043	34044			26312	25202	28544
	Exon SEQ ID NO:	23112	24406	18571							18401	24110	24427	24837		15059			12793				_ [- 1	17302	1	- 1	- 1		22379	23703	13800	12734	14015
	Probe SEQ ID NO:	10577	12167	5950	1264	2543	12231	4307	3078	5776	5776	11696	12201	12614	756	2495	7096	124	124	1199	2148	3759	3922	3922	4721	6850	7588	8284	8584	3882	11198	12461	\$	1422

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					,		
Probe SEQ ID NO:	SEO ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
1688	14280	26814	96.1	2.0E-38	38 AA437353.1	EST_HUMAN	zw30d01.r1 Soares ovary tumor NbHOT Homo sapiens cDNA clone IMAGE:770785 5' similar to SW:MA12_RABIT P45701 MANNOSYL-OLIGOSACCHARIDE ALPHA-1.2-MANNOSIDASE;
1688	L		1.99	2.0E-38	-38 AA437353.1	33.1 EST_HUMAN	zw30d01.r1 Soares ovary tumor NbHOT Homo sapiens cDNA clone IMAGE:770785 5' similar to SW:MA12_RABIT P45701 MANNOSYL-0LIGOSACCHARIDE ALPHA-1,2-MANNOSIDASE;
4681				2.0E-38	4557887	LN	Homo sapiens keratin 18 (KRT18) mRNA
5283			0.63	2.0E-38	-38 BE 296224.1	EST_HUMAN	601177386F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3532580 51
5293	L			2.0E-38	-38 BE296224.1	EST_HUMAN	601177386F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3532580 5
5327	L		0.63	2.0E-38	-38 AA437181.1	EST_HUMAN	zx61409.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:758129 5' similar to TR:G817857 G817957 GLYCINE RECEPTOR SUBUNIT ALPHA 4;
7704	L			2.0E-38		EST_HUMAN	AV721103 HTB Hamo sapiens cDNA clone HTBARH11 5'
8420	L.			2.0E-38	-38 BE165980.1	EST_HUMAN	MR3-HT0487-150200-113-g01 HT0487 Homo sapiens cDNA
8826	L	34289	0.51	2.0E-38		EST_HUMAN	HSC18F031 normalized infant brain cDNA Homo sapiens cDNA clone c-18f03
8885	L			2.0E-38	-38 AF069755.1	TN	Homo sapiens orphan G protein-coupled receptor HG20 (HG20) mRNA, complete cds
[3				0000	38 BE222258 4	NAMILIA FOR	hu09g02.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3166130 3' similar to TR:002710 O02710 GAG POLYPROTEIN :
8148				Z.UC-30	000000		Usana sanjana mBNA for KIAA0145 profisi nafisi refe
10345	22839	35835	1.98	2.0E-38	38 D63479.2	Z	none sapiens mixed to nixed to protein, partai was
11114	23624	36665	3.38	2.0E-38	-38 AA595480.1	EST_HUMAN	no34g03.s1 NCI_CGAP_Pr23 Homo sapiens cDNA clone IMAGE:1102812.3' similar to 1K:E212316 E212316 NADP DEPENDENT LEUKOTREINE B4 12-HYDROXYDEHYDROGENASE. ;
11114				2.0E-38	AA595480.1	EST HUMAN	no34g03.51 NCI_CGAP_Pr23 Homo sapiens cDNA clone IMAGE:1102612 3' similar to TR:E212316 E212316 NADP DEPENDENT LEUKOTREINE B412-HYDROXYDEHYDROGENASE.;
11363	L				2.0E-38 BE712790.1	EST_HUMAN	QV2-HT0698-080800-283-a05 HT0698 Homo sapiens cDNA
11486				2.0E	-38 AF190501.1	Ę	Homo sapiens leucine-rich repeat-containing G protein-coupled receptor 6 (LGR8) mRNA, pertial cds
11408				2.0E-38	2.0E-38 AF190501.1	Į.	Homo sapiens leucine-rich repeat-containing G protein-coupled receptor 6 (LGR6) mRNA, partial cds
11753	1			2.0E-38	2.0E-38 AV726988.1	EST_HUMAN	AV726988 HTC Homo sapiens cDNA clone HTCAXH07 5'
11755			1.68		2.0E-38 AB012723.1	N	Homo sapiens gene for kinesin-ilke protein, complete cds
12050			3.19		2.0E-38 M55630.1	NT	Human topoisomerase I pseudogene 2
12060	<u>L</u>	31000	5.31	2.0E-38	2.0E-38 H55641.1	EST_HUMAN	CHR220580 Chromosome 22 exon Homo saplens cDNA clone C22_788 5'
12128	L		2.87	2.0E-38	S74906.	NT	E1 beta=pyruvate dehydrogenase beta (promoter) [human, piacenta, Genomic, 1280 nt]
12624	24702		1.55		11418248 NT	TN	Homo sapiens sulfotransferase-related protein (SULTX3), mRNA
1132			2.17		1.0E-38 AA401570.1	EST_HUMAN	zu62b02.r1 Soares_testis_NHT Hamo sapiens cDNA clane IMAGE:742539 5' similar to contains element MER19 repetitive element;
٤	1	27403			4885288 NT	Z	Homo sapiens guanine nucleotide binding protein-like 1 (GNL1), mRNA
2842	- 1			2			

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Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
2065	14645	27219	1.46	1.0E-38	7661969 NT	NT	Homo sapiens KIÁA0173 gene product (KIAA0173), mRNA
2539	15103		1.71	1.0E-38	-38 AF270831.1	N_	Homo sapiens cyclin K (CCNK) gene, exon 7
2645	15204	27777	14.26	1.0E-38	4758371 NT	NT	Homo sapiens fibrinogen-like 1 (FGL1), mRNA
4235	16823	29274	1.03	1.0E-38	1.0E-38 AB037863.1	NT	Homo sapiens mRNA for KIAA1442 protein, partial cds
4411	16996	29439	0.61	1.0E-38	4505016 NT	FZ	Homo sapiens low density lipoprotein receptor-related protein 6 (LRP6) mRNA, and translated products
4416	17001			1.0E-38	-38 AL163203.2	IN	Homo sapiens chromosome 21 segment HS21C003
4416	17001		1.52	1.0E-38	-38 AL163203.2	FZ	Homo sapiens chromosome 21 segment HS21C003
4702	17284	29729		1.0E-38	8922543 NT	LΝ	Homo sapiens hypothetical protein FLJ10600 (FLJ10600), mRNA
5289	17851		28.49		N46880.1	EST_HUMAN	yyssg01.r1 Sogres_multiple_sclerosis_2NbHMSP Homo sapiens cDNA clone IMAGE:277704 5' similar to SW:CA1H_MOUSE P39061 COLLAGEN ALPHA 1(XVIII) CHAIN PRECURSOR.
6178	18788	31558			7305360 NT	F	Mus musculus otogelin (Otog), mRNA
6178	18788	31557		1.0E-38	7305360 NT	Ę	Mus musculus otogelin (Otog), mRNA
7435	19959	32824	8	1.0E-38	-38 AB014512.1	N	Homo sapiens mRNA for KIAA0612 protein, partial cds
0806	21616		0.97	1.0E-38	11422250 NT	N	Homo sapiens hypothetical protein FLJ10600 (FLJ10600), mRNA
9331	21845	34795	6.34	1.0E	-38 BE350127.1	EST HUMAN	ht09g01.x1 NCI_CGAP_Kid13 Homo sapiens cDNA clone IMAGE:3146256 3' similar to contains MER29.b3 MER29 repetitive element ;
11465	L	١		1.06	7662109 NT	N	Homo sapiens KIAA0428 gene product (KIAA0426), mRNA
11906			2.57	1.0E-38	1.0E-38 AL163284.2	Z	Homo sapiens chromosome 21 segment HS21C084
58	12738	25208		8.0E-39	4502312 NT	N	Homo sapiens ATPase, H+ transporting, lysosomal (vacuolar proton pump) 16kD (ATP6C) mRNA
1438	14031		1.49	8.0E-39	4758229 NT	N	Homo sapiens estrogen receptor-binding fragment-associated gene 9 (EBAG9) mRNA
1869	١		0.88	8.0E	-39 AI823404.1	EST_HUMAN	wh53f10.x1 NCL_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2384491 3' similar to TR:P87890 P87890 POL PROTEIN ;
2141	14719	27280			7.0E-39 AL163227.2	FN	Homo sapiens chromosome 21 segment HS21C027
10688	l	36230			-39 BF331829.1	EST_HUMAN	QV1-BT0631-040900-357-f02 BT0631 Homo sapiens cDNA
11639	24078			90.8	11526372 NT	LN.	Homo sapiens hyaluronan-mediated motility receptor (RHAMM) (HMMR), mRNA
12532	L		2.92	90.9E	:-39 BE670394.1	EST_HUMAN	7s34c03.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3284356 3' similar to WP:R151.6 CE00828 ;
							Homo sapiens X-linked anhidroitic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat
1045	13653	26165	1.85	5.0E	-39 AF003528.1	N	regions
3014	15630	28108	7.14		5.0E-39 AI750154.1	EST HUMAN	at36b04.x1 Barstead colon HPLRB7 Homo sapiens cDNA clone IMAGE:2374063 3' similar to TR:Q15408 Q15408 NEUTRAL PROTEASE LARGE SUBUNT ;contains LTR7.tt LTR7 repetitive element;
22.00	ı	L			11420289 NT	IN	Homo saciens hypothetical protein FLJ10803 (FLJ10803), mRNA
	ı						

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Top Hit Descriptor	Chlaracebus aethiops mRNA for ribosomal protein S4X, complete cds	Homo sapiens chromosome 21 segment HS21C010	Homo sapiens EBNA-2 co-activator (100kD) (p100), mRNA	Homo sapiens EBNA-2 co-activator (100kD) (p100), mRNA	ee92g04.s1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:1020438 3' similar to contains OFR b1 OFR repetitive element:	Homo sapiens DNA for prostacyclin synthase, exon 2	Homo sapiens DNA for prostacyclin synthase, exon 2	Homo sepiens Ran GTPase activating protein 1 (RANGAP1), mRNA	QV0-FN0063-260600-278-c06 FN0063 Homo sapiens cDNA	fmfc16 Regional genomic DNA specific cDNA library Homo sapiens cDNA clone CR12-1	fmfc16 Regional genomic DNA specific cDNA library Homo sapiens cDNA clone CR12-1	fmfc16 Regional genomic DNA specific cDNA library Homo sapiens cDNA clone CR12-1	ox63a10.s1 Soares_NhHMPu_S1 Homo sapiens cDNA clone IMAGE:1860986 3' similær to SW:GTR5_RAT P43427 GLUCOSE TRANSPORTER TYPE 5, SMALL INTESTINE ;	ox83a10.s1 Soares_NHHMPu_S1 Home sapiens cDNA clone IMAGE:1860986 3' similar to SW:GTR5_RAT	TOTAL SECONDE INVISION OF THE STORY OF THE S	yp51c06.s1 Soares retina N2b4HK Homo sapiens cDNA cione IMAGE: 190954 3	601301607F1 NIH_MGC_21 Homo saplens cDNA clone IMAGE:3636289 5	promrna-7.D01.r bvtumor Homo saplens cDNA 5'	Homo sapiens homogentisate 1,2-dioxygenase gene, complete cds	PM0-BT0340-211299-003-d02 BT0340 Homo sapiens cDNA	nw21g02.s1 NCI_CGAP_GCB0 Homo sapiens cDNA clone IMAGE:1241138 3' similar to contains THR.13		Homo sapiens chromosome 21 segment nozitou48	RC4-FN0037-290700-011-a10 FN0037 Homo sapiens cDNA	ng86f03.s1 NCI_CGAP_Pr6 Hamo sapiens cDNA clone IMAGE:941693	zn06f02.r1 Stratagene hNT neuron (#937233) Homo sapiens cDNA clone iMAGE:546651 5'	Rattus norvegicus putative four repeat Ion channel mRNA, complete cds	am88c11.s1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:1630196 3'	tu35e03.x1 NCI_CGAP_Pr28 Homo septens cDNA clone IMAGE:2253052 3'	Human mRNA for KIAA0209 gene, partial cds	Homo sepiens KVLQT1 gene	Homo sapiens KVLQT1 gene
Top Hit Database Source		FZ			NAMI H TOE	Τ			EST_HUMAN		EST_HUMAN	EST_HUMAN	EST HUMAN	Г	Т	П	HUMAN	EST_HUMAN	LN	EST_HUMAN		HOMAN	IN	EST_HUMAN	EST_HUMAN	EST_HUMAN	LN	EST_HUMAN	EST_HUMAN	NT	NT	NT
Top Hit Acesslan No.	39 AB015610.1	39 AL163210.2	2113	11422113 NT	20 4 4 68 20 40 1			11418177 NT	39 BE836452.1	39 AA631949.1	39 AA631949.1	39 AA631949.1	39 AI084557.1		39 AI08455/.1	39 H37903.1	39 BE409203.1	39 AI525119.1	39 AF000573.1	39 AW372318.1		39 AA720574.1	39 AL163248.2	39 BF370207.1	39 AA508880.1	39 AA080867.1	39 AF078779.1	39 AA984531.1	39 AI686660.1	39 D86964.1	39 AJ006345.1	-39 AJ006345.1
Most Similar (Top) Hit BLAST E Value	4.0E-39/	4.0E-39 /	4.0E-39	4.0E-39						3.0E-39	3.0E-39 /	3.0E-39	3.0E-39					2.0E-39	2.0E-39	2.0E-39			2.0E-39	2.0E-39	2.0E-39		2.0E-39	2.0E-39	2.0E-39	2.0E-39	1.0E-39	1.0E-39
Expression Signal	35.11	0.75	0.73	0.73	0	0.82	0.82	4.45	5.52	16.62	16.62	16.62	6.46		6.46	6.63	9.84	15.07	3.85	41.87		2.5	1.56	1.7	3.89	1.95	0.55	0.56	0.54	3.11	2.33	2.33
ORF SEQ ID NO:			31350									25198			36765									29527						36863	26684	
SEQ ID	13206	1	1	ı		21778	1	1	24536	12731	12731	12731		J	24143	24174	13543	13558	13674			Į		17077	18309	1	l		L	L	_	
Probe SEQ ID NO:	578	3631	5995	5895	6	9252	9252	12237	12363	5	5	51	11744		11744	11791	930	88	1069	1577		2016	2657	4492	5682	7405	8252	9415	9544	11309	1560	1560

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Table 4
Single Exon Probes Expressed in Fetal Liver

Probe SEQ ID 3	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLASTE Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
1578	14171	26700			7657020 NT	TN	Homo sapiens DKFZp434P211 protein (DKFZP434P211), mRNA
4719	17300	29745		1.0	-39 AW 296073.1	EST_HUMAN	ULH-BW0-aiu-h-06-0-UI.s1 NCI_CGAP_Sub6 Homo sapiens cDNA clone IMAGE:2730850 3'
4764	17345		4.98	1.05	-39 AW951995.1	EST_HUMAN	EST364065 MAGE resequences, MAGB Homo sapiens cDNA
4764	17345		4.98		1.0E-39 AW951995.1	EST_HUMAN	EST364065 MAGE resequences, MAGB Homo sapiens cDNA
4812	17390		10.18		7657020 NT	NT	Homo sapiens DKFZp434P211 protein (DKFZP434P211), mRNA
							Homo sapiens sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain
5581	18192	30638	0.86	1.0E-39	11417342 NT	NT	(TM) and short cytoplasmic domain, (semaphorin) 5A (SEMA5A), mRNA
5561	18192	30639	0.86	1.0E-39	11417342 NT	¥	Homo sapiens sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplesmic domain, (semaphorin) 5A (SEMASA), mRNA
							yd26g06.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:109402 5' similar to contains
5812	18436		1.13	1.0	-39 T80876.1	EST HUMAN	Alu repetitive element; contains LTR1 repetitive element;
5845	18469		5.75	1.0E	-39 AJ278170.1	IN	Mus musculus mRNA for neuronal interacting factor X 1 (NIX1) (Nix1 gene)
5845	18469	31195	5.75		1.0E-39 AJ278170.1	IN	Mus musculus mRNA for neuronal interacting factor X 1 (NIX1) (Nix1 gene)
6914	19573		1.87		11436736 NT	LN	Homo sapiens tubby ilke protein 3 (TULP3), mRNA
7400	19925	32790	2.28	1.0	-39 D78132.1	IN	Homo sapiens mRNA for res-related GTP-binding protein, complete cds
8499	21038	33959	0.85	1.0	-39 046530	SWISSPROT	RIBONUCLEASE KE PRECURSOR (RNASE KE)
12161	24401		4.3	1.0	-39 ∪07000.1	NT	Human breakpoint cluster region (BCR) gene, complete cds
581	13211	25689		90'6		TN	Homo sapiens UDP-glucose pyrophosphorylase 2 (UGP2), mRNA
1278	13873		20.54	30'6		IN	Homo sapiens AE-binding protein 1 (AEBP1) mRNA
1278	13873	26393		9.0E-40	4755145 NT	LN	Homo sapiens AE-binding protein 1 (AEBP1) mRNA
1498	14090	26630	1.54	9.0E-40	4507512 NT	FN	Homo sapiens tissue inhibitor of metalloproteinase 3 (Scraby fundus dystrophy, pseudoinflammatory) (TIMP3) mRNA
3853	16451			9.0E-40	4503784 NT	LN.	Homo sapiens fragile X mental retardation 1 (FMR1) mRNA
4045	18004			90.6	-40 AB033070.1	١	Homo sapiens mRNA for KIAA1244 protein, partial cds
3077	15692		1	8.0E-40	-40 AA078165.1	EST_HUMAN	7H15A04 Chromosome 7 HeLa cDNA Library Homo sapiens cDNA clone 7H15A04
3996	16594		1.74	8.0E-40	-40 BE396541.1	EST_HUMAN	601288958F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3619168 5
7702	20211	33098	2.01	7.0E	-40 U60325.1	TN	Human DNA polymerase gamma mRNA, nuclear gene encoding mitochondrial protein, complete cds
2077	20211	33099	2.01	7.0E	-40 U60325.1	FN	Human DNA polymerase gamma mRNA, nuclear gene encoding mitochondrial protein, complete cds
10776	23300	36306	2.48	7.0E	-40 AL163246.2	TN	Homo sapiens chromosome 21 segment HS21C046
2753	15308	27873	5.43	6.0E	-40 AA361275.1	EST_HUMAN	EST70527 T-cell lymphoma Homo sapiens cDNA 5' end similar to similar to zinc finger protein family

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					2.B. (1)	בייייייייייייייייייייייייייייייייייייי	
Probe SEQ ID NO:	SEQ ID	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acessian No.	Top Hit Database Source	Top Hit Descriptor
2753	15308	27874	5.43	6.0E-40	40 AA361275.1	EST_HUMAN	EST70527 T-cell lymphoma Homo sapiens cDNA 5' end similar to similar to zinc finger protein family
8094	18710		2.11	6.0E-40	BE504766.1	EST_HUMAN	hz40g01.x1 NCI_CGAP_GC8 Hamo sapiens cDNA clone IMAGE:3210480 3'
6296	18904		1.42	6.0E-40		NT	Homo sapiens KIAA0211 gene product (KIAA0211), mRNA
7015	19513	32334	4.18	6.0E-40	11439783 NT	L	Homo sapiens fatty acid desaturase 1 (FADS1), mRNA
7015	19513	32335	4.18	6.0E-40	11439783 NT	LΝ	Homo sapiens fatty acid desaturase 1 (FADS1), mRNA
9887			8.69	6.0E-40	-40 AV653028.1	EST_HUMAN	AV653028 GLC Homo sapiens cDNA clone GLCDGF04 3
9887	22384	35361	8.69	6.0E-40	40 AV653028.1	EST_HUMAN	AV653028 GLC Homo sapiens cDNA clone GLCDGF04 3
1919	ļ		1.42	4.0E	40 AI686005.1	EST_HUMAN	tt91b01,x1 NCI_CGAP_Pr28 Homo sapiens cDNA clone IMAGE:2248873 3' similar to TR:073505 073505 POL PROTEIN. :
							Homo sapiens X-linked anhidroitic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat
2155	14732		1.38	4.0E	-40 AF003528.1	N	regions
4478	17063	29513	9.28	4.0E-40	7662117 NT	LN	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
7827	20369			4.0E	40 AU127831.1	EST_HUMAN	AU127831 NT2RP2 Homo sapiens cDNA clone NT2RP2002172 5'
7933	20475			4.0E	40 AA742809.1	EST_HUMAN	nv34e10.r1 NCI_CGAP_Br4 Homo sapiens cDNA clone IMAGE:1222122
8985		34451	3.91	4.0E-40	-40 BE009416.1	EST_HUMAN	PM0-BN0167-070500-002-h12 BN0167 Homo sapiens cDNA
8985	L			4.0E-40	-40 BE009416.1	EST_HUMAN	PM0-BN0167-070500-002-h12 BN0167 Hamo sapiens cDNA
10595	ı		3.06	4.0E	40 AW841585.1	EST_HUMAN	RC1-CN0017-120200-012-604 CN0017 Homo sapiens cDNA
4212	_	29250	0.89	3.0E	-40 AI925949.1	EST_HUMAN	wh12f07.xt NCI_CGAP_Kid11 Home sapiens cDNA clone IMAGE:2380549 3'
8750	<u> </u>			3.05	11417342 NT	۲	Homo sapiens sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A (SEMA5A), mRNA
8321	L				5454167 NT	N	Homo sapiens HBV associated factor (XAP4) mRNA
8899		L			AF07877	NT	Rattus norvegicus putative four repeat ion channel mRNA, complete cds
9138	L				3.0E-40 AF078779.1	. LN	Rattus norvegicus putative four repeat ion channel mRNA, complete cds
10541	L	36092		3.0E	40 D86964.1	TN	Human mRNA for KIAA0209 gene, partial cds
	<u> </u>						httpsg01.x1 NCI_CGAP_Kid13 Homo sapiens cDNA clone IMAGE:3146256 3' similar to contains MER29.b3
10903					3.0E-40 BE350127.1	ES! HUMAN	MERZY repetitive element,
11145	23653	36695	13.89	3.0E-40	6005813 NT	Ν	Homo sapiens serine threonine protein kinase (NDR), mRNA
11445	23895	09698	1.58		3.0E-40 AW118799.1	EST HUMAN	xd96h02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2805491 3' similar to TR:Q15804 Q15804 SIMILAR TO ENV OF TYPE A AND TYPE B RETROVIRUSES AND TO CLASS II HERVS;
347	1		4.35		2.0E-40 A1223036.1	EST_HUMAN	qg52h08.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1838847 3'
827	L_		22.71		2.0E-40 AW303868.1	EST_HUMAN	ix24e10.x1 NCI_CGAP_Ut4 Homo sapiens cDNA clone IMAGE:2761098 3' similar to SW:RS5_MOUSE P97461 40S RIBOSOMAL PROTEIN S5. ;

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Onigia Chora Expressed III Tetal CIVE	Top Hit Descriptor	AV731601 HTF Homo sapiens cDNA clone HTFAZE05 5'	Homo sapiens proteasome (prosome, macropain) subunit, alpha type, 7 (PSMA7) mRNA, and translated products	Homo sapiens proteasome (prosome, mecropain) subunit, alpha type, 7 (PSMA7) mRNA, and translated products	wt80a11.x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:25147163' similar to TR:Q91929 Q91929 IZNC FINGER PROTEIN	Homo sablens adenvid cyclase-associated profein 2 (CAP2) mBNA	801121567F1 NIH MGC 20 Homo sabiens cDNA clone IMAGE 3245784 5	Homo sapiens adenyly cyclase-associated protein 2 (CAP2) mRNA	Homo saplens chromosome 21 segment HS21C080	Homo sapiens chromosome 21 segment HS21C080	Homo sapiens plasminogen (PLG) mRNA	nc09a09.s1 NCI CGAP Prt Home sabiens cDNA clone IMACE-1107808	Homo sapiens sorting nextin 3 (SNX3) mRNA	Homo sapiens zinc finger protein 200 (ZNF200) mRNA, and translated products	277911.s1 Sources fetal liver spleen 1NFLS S1 Homo septents CDNA close IMAGE 418317 31	2h78f11.s1 Soares fetal liver spleen 1NFLS S1 Homo sapiens cDNA clone IMAGE-418347 3	Inj42704.51 NCI CGAP AA1 Homo sapiens cDNA clone IMAGE 995167.3	nj42f04.s1 NCI_CGAP_AA1 Homo sapiens cDNA clone IMAGE:995167.3'	POL POLYPROTEIN (CONTAINS: PROTEASE : REVERSE TRANSCRIPTASE - RIBONILO: FASE HI	AU149345 NT2RM4 Homo sapiens cDNA clone NT2RM4002122 3'	Homo sapiens chromosome 21 segment HS21C046	MR2-CT0222-211099-002-e10 CT0222 Homo sapiens cDNA	za38a02.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:294602.5'	Homo sapiens chromosome 21 segment HS210003	wp04h04.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone INAGE:2463895 3'	wp04h04.x1 NCL CGAP_Kid11 Home sapiens cDNA clone IMAGE.2483895.3	Homo sapiens hypothetical protein (FLJ10998), mRNA	Homo sapiens hypothetical protein FLJ13188 (FLJ13188), mRNA	Homo sapiens a disintegrin and metalloproteinase domain 22 (ADAM22), mRNA	Homo sapiens IQ motif containing GTPase activating protein 1 (IQGAP1), mRNA	Human platelet activating factor acetythydrolase, brain isoform, 45 kDa subunit (LIS1) gene, exons 3 and 4
באסון גוסספ	Top Hit Database Source	EST. HUMAN	FZ	Ę	EST HUMAN	LN	EST HUMAN	1	N	Ν	۲	EST HUMAN	1	LN.	EST HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	SWISSPROT	EST_HUMAN	TN	EST_HUMAN	EST_HUMAN	N	EST_HUMAN	EST_HUMAN	뉟	F	۲	Ę	N
Pigino	Top Hit Acession No.	2.0E-40 AV731601.1	4506188 NT	4506188 NT	2.0E-40 Al968562.1	5453592 NT	BE275932.1	3592	2.0E-40 AL163280,2		5880	1.0E-40 AA225989.1	4507142	4508012 NT	W92708.1		1.0E-40 AA573201.1	1.1		45.1		E-40 BF334112.1		8.0E-41 AL163203.2		E-41 Al934364.1	11431114 NT	11545770 NT	11419208 NT	11433010 NT	7.0E-41 U72335.1
	Most Similar (Top) Hit BLAST E Value	2.0E-40	2.0E-40	2.0E-40	2.0E-40	2.0E-40	2.0E-40	2.0E-40	2.0E-40	2.0E-40	2.0E-40	1.0E-40	1.0E-40	1.0E-40	1.0E-40	1.0E-40	1.0E-40	1.0E-40	1.0E-40 P26808	1.0E-40	1.0E-40	1.0E-40	9.0E-41	8.0E-41	7.0E-41	7.0E-41	7.0E-41	7.0E-41	7.0E-41	7.0E-41	7.0E-41
	Expression Signal	1.38	1.39	1.39	0.95	1.86	1.25	4.32	1.84	1.84	3.28	1.05	1,47	4.95	0.69	0.69	2.12	2.12	0.83	4.13	1.72	7.52	0.65	1.68	1.58	1.58	0.95	0.84	3.44	8.0	0.95
	ORF SEQ ID NO:		27119	27120	27262			28242	30046		30351			29742	31786				32667	36330			28938	33311	25990	25991	30377	30422	31535	31879	30442
	Exon SEQ ID NO:	14451	14561	14561	14694	14789	15271	15774	17601	17601	17938	13529	15947	17297	19008	19006	19678	19678	19811	23320	24057	24956	16474	20404	15427	15427	17968	18103	18772	19095	18086
	Probe SEQ ID NO:	1865	1978	1978	2116	2214	2714	3160	5027	5027	5379	916	3337	4716	6403	6403	7145	7145	7283	10797	11815	12182	3876	7862	<u>8</u>	881	<u>\$</u>	2469	8159	8494	7067

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					>		
Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
11311	23804	36864	1.98	7.0E-41	4758445 NT	LΝ	Homo sapiens guanine nucleotide binding protein 10 (GNG10) mRNA
12631	24852		8.97	7.0E-41	11417972 NT	NT	Homo sapiens pescadillo (zebrafish) homolog 1, containing BRCT domain (PES1), mRNA
302	12957	25447	1.42	9.0E	41 AB037163.1	NT	Homo sapiens DSCR5b mRNA, complete cds
2157	14734		2.33	6.0E-41	7657042 NT	IN	Homo saplens Down syndrome candidate region 1 (DSCR1), mRNA
7912	20454	33360	1.58	90.9	41 BF513783.1	EST_HUMAN	UI-H-BW 1-emp-b-03-0-UI s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3070421 3'
12811	24873		1.61	6.0E-41	41 AW873637.1	EST HUMAN	ho64f08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:3042183 3' similar to contains MER32.b3 MER32 repetitive element ;
1838	14428	28977	2.18	5.0E	-41 T62628.1	EST_HUMAN	yc03e10.s1 Stratagene lung (#937210) Homo sapiens cDNA clone IMAGE:79626 3'
4184	16774		1.01	5.0E-41	4885836 NT	N	Homo sapiens target of myb1 (chicken) homolog (TOM1), mRNA
2989	19263		1.97	5.0E-41	41 BE067042.1	EST_HUMAN	PM4-BT0341-251199-002-F11 BT0341 Homo saplens cDNA
414	13049		1.58	4.0E.	41 BE156318.1	EST_HUMAN	QV0-HT0387-150200-114-g09 HT0367 Homo sapiens cDNA
1137	13740	26249		4.0E	41 AU119344.1	EST_HUMAN	AU119344 HEMBA1 Homo sapiens cDNA clone HEMBA1005583 5'
1455	14047	26577	6.23	4.05	-41 AI027117.1	EST_HUMAN	ow45e06.s1 Soares_parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:1649794 3' similar to TR:000597 000597 CYTOCHROME C-LIKE POLYPEPTIDE: .contains LTR5.b1 LTR5 repetitive element :
							row45a06 c1 Scares: parathyroid firmor NbHPA Homo satiens cDNA done IMAGE:1649794 3' similar to
1455	14047	26578	9.23	4.0E	-41 AI027117.1	EST_HUMAN	TR: 000597 000597 CYTOCHROME C-LIKE POLYPEPTIDE. ;contains LTR5.b1 LTR5 repetitive element :
1469	14081	26596		4.0E	-41 AB008681.1	NT	Homo sapiens gene for activin receptor type IIB, complete cds
1877	14289		8.43	4.0E	41 AI500408.1	EST HUMAN	tm98c04.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2165958 3' similar to contains OFR.b1 OFR repetitive element;
2913	15530			4.0E	-41 AJ229041.1	L	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22; segment 1/3
2913	15530		3.73	4.0E	-41 AJ229041.1	NT	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22; segment 1/3
4225	16813		2.27	4.0E	-41 X92685.1	LN	H.sapiens DNase I hypersensitive site (HSS-3) enhancer element
6632	19228		1.38	4.0E	-41 AV758295.1	EST_HUMAN	AV758295 BM Homo saplens cDNA clone BMFBHC06 5'
9810	22110	35072		4.0E	41 BF304683.1	EST_HUMAN	601888096F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4122119 5
11522	23970		9.87	4.0E	-41 AV710480.1	EST_HUMAN	AV710480 Cu Hamo sapiens cDNA clane CuAACC07 5'
12375	24841		2.28	4.0E	-41 AV708431.1	EST_HUMAN	AV708431 ADC Homo sapiens cDNA clone ADCARE02 5'
12570	24669	30875	4.65	4.0E	-41 BE887118.1	EST_HUMAN	601508315F1 NIH_MGC_71 Hamo sapiens cDNA clone IMAGE:3910059 5
88	13595		1.64	3.0E	-41 AB030176.1	١	Homo saplens PAD-H19 mRNA for peptidy/arginine deiminase type II, complete cds
							Home sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes,
4428	17014	29456			3.0E-41 AB026898.1	LN.	complete cds)
5273	17834				3.0E-41 AB037748.1	L	Homo sapiens miKNA for KIAA132/ protein, partial cos
5683	18310	30805	9.55		X87689.1	LN	H. Sapiens man A for putative post CLCP protein

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חומים ראחו ביסחפא ראלון מספסת יוון מימו רוגמי	Expression (Top) Hit Top Hit Acession Signal BLASTE No. Source	1.76 4.0E-42 AW818630.1 EST_HUMAN	3.45 4.0E-42 BF035327.1 EST_HUMAN	4,49 2.0E-42 BF376834.1 EST_HUMAN	0.92 2.0E-42 AV690218.1 EST_HUMAN	EST_HUMAN	2.41 2.0E-42 AW250059.1 EST_HUMAN	13.21 2.0E-42 AW955368.1 EST_HUMAN	13.21 2.0E-42 AW955368.1 EST_HUMAN	0.84 2.0E-42 AI052586.1 EST_HUMAN	1.1 2.0E-42 BE538919.1 EST_HUMAN	0.53 2.0E-42 P81649 SWISSPROT	0.53	1.55	1.52 1.0E-42 X57147.1 NT	0.84 1.0E-42[AW295809.1 [EST_HUMAN]	2.08 1.0E-42]AJ251818.1 [NT	28253 2.08 1.0E-42[AJ251818.1 [NT Homo sapiens partial C9 gene for complement component C9, exon 1		20404 10.72 1.0E-42 AF067 80.1 N1 STRUCKING THE DIRECTION OF THE STRUCKING CAS	26405 10,72 1,0E-42, AF067166,1 NT encoding mitochondrial protein, complete cds	1.86 1.0E-42 11423219 NT	5.25	Homo sapiens origin recognition complex, subunit 5 (yeast homolog)-like (ORCSL) mRNA, and translated	4505524 NT	2.85 1.0E-42 7662027 NT	0.83 1.0E-42 5031610 NT	1.07 1.0E-42 AL 163267.2 NT	1.92 1.0E-42 AL 163280.2 NT	0.86 1.0E-42 AW813617.1 EST_HUMAN	2.65 1.0E-42 5803122[NT	2.65 1.0E-42 5803122]NT	6.23 1.0E-42 4506758 NT	
	Expression Signal	1.76	3.45	4.49		2.69	2.41	13.21	13.21	0.84	1.1			1.55	1.52				,	10.74					6.58		0.83							
	ORF SEQ ID NO:	36077	2 36799	26661	3 27575	3	6 27603	3 31279	3 31280	32253	3 35235		35446	37100	1 25880			3 26253			7 26405		4 27712			1 28836	0 28924	L			4 29885			
	SEQ ID NO:	23065	23742	14122	15003	15023			18553	19439	22253	l	22462		13381	13685	13743	13743	ľ	1045	15437	Ι.	1.	L		16371	16460	16597		17279	17434	17434	1	17835
	Probe SEQ ID NO:	10528	11290	1530	2436	2458	2469	5931	5931	6849	9755	2962	1986	11585	763	1080	1140	1140		697	1285	1738	2581		2991	3770	3862	3999	4331	4697	4856	4856	4893	5274

PCT/US01/00669

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		ORF SEQ	Expression	Most Similar (Top) Hit	Top Hit Acession	Top Hit	Tow Life Description
SEO SO SO SO SO SO SO SO SO SO SO SO SO SO	0 0 0 0 0 0 0 0	Ö Ö	Signal	BLAST E Value	o Ž	Source	prid pead you do
5274	17835	30281	1.48	1.0E-42	4501912 NT	NT	Homo sapiens a disintegrin and metalloproteinase domain 23 (ADAM23) mRNA
8686	22493	35482	3.35	9.0E-43	4757969 NT	NT	Homo sapiens chromodomain protein, Y chromosome-like (CDYL) mRNA
10916			3.57	9.0E-43	9.0E-43 AA435719.1	EST_HUMAN	z79a07.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:7285323'
88			22.52	8.0E-43	AV736824.1	EST_HUMAN	AV738824 CB Homo sapiens cDNA clone CBLAKH08 5'
88	L		22.52	8.0E-43		EST_HUMAN	AV736824 CB Hamo sapiens cDNA clone CBLAKH08 5'
729	L.		7.38	8.0E-43	8.0E-43 8923276 NT	NT	Homo saplens hypothetical protein FLJ20297 (FLJ20297), mRNA
729	13349	25842	7.38	8.0E-43	8923276 NT	NT	Homo sapiens hypothetical protein FLJ20297 (FLJ20297), mRNA
729	13349	25843	7.38	8.0E-43	8923276 NT	NT	Homo sapiens hypothetical protein FLJ20297 (FLJ20297). mRNA
5877	18499	31225	0.82	8.0E-43	43 H13952.1	EST_HUMAN	y/08e11.r1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:148172 5'
3703			7.6		43 AW 246442.1	EST_HUMAN	2822251.5prime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2822251 5'
							or88807.s1 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1602900 3' similar to contains LTR8.b3
5414	17971	30381	1.1	7.0E-43	43 AA989045.1	EST_HUMAN	LTR8 repetitive element ;
	L						or88a07.s1 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1602900 3' similar to contains LTR8.b3
414	17971	30382	1.1	7.0E-43	43 AA989045.1	EST_HUMAN	LTR8 repetitive element ;
							wp69b01.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2468985 3' similar to TR:015475
8704	21243		3.4	7.0E-43	43 AI936748.1	EST_HUMAN	O15475 UNNAMED HERV-H PROTEIN ;contains LTR7.b1 LTR7 repetitive element ;
	l						ne72d06.s1 NCI_CGAP_Ew1 Hamo sapiens cDNA clone IMAGE:909803 similar to gb:L05095 60S
1388	13982		9.98	8.0E	43 AA491890.1	EST_HUMAN	RIBOSOMAL PROTEIN L30 (HUMAN);
2628	15190		2.44	6,0E-43	43 AV708201.1	EST_HUMAN	AV708201 ADC Homo sapiens cDNA clone ADCACC10 5
							Homo sapiens ATP-binding cassette, sub-family C (CFTR/MRP), member 3 (ABCC3), transcript variant
6453	19054	31839	2.54	6.0E-43	9955973 NT	NT	MRP3B, mRNA
							hd30b04.x1 Soares_NFL_T_GBC_S1 Home sapiens cDNA clone IMAGE:2910991 3' similar to contains
8889	19486	32308	2.15	6.0E-	43 AW 468897.1	EST_HUMAN	MER1 (3) MER1 MER1 repetitive etement :
						:	### ### ### ### ######################
9765	22263	35246	2.2	6.0E	-43 AA195154.1	EST HUMAN	G328641 UB1, COMPLETE CD3. Contains element PTR/ repetitive element.
10980	23494		6.53	90.9	-43 AL119158.1	EST HUMAN	DKFZp761L1712_r1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp761L1712 5
148	12812		1.7	5.0E-43	AL163213.2	LN	Homo sapiens chromosome 21 segment HS21C013
528	13160	25641	3.37	L	5.0E-43 AA382780.1	EST HUMAN	EST96033 Testis I Homo sapiens cDNA 5' end
2872	15480		1.18		43 AV732578.1	EST_HUMAN	AV732578 HTF Hamo sapiens cDNA clone HTFANC06 5
8447			1.23	5.0E	43 AI613509.1	EST_HUMAN	tw22e07.x1 NCI_CGAP_Brn52 Homo sapiens cDNA clone IMAGE:2260452 3'
6983	19481	32302		€.0E	43 AI613509.1	EST_HUMAN	tw22e07.x1 NCI_CGAP_Bm52 Homo sapiens cDNA clone IMAGE:2260452 3'
8812	H			5.0E	43 H74277.1	EST_HUMAN	yu49g12.r1 Soares fetal liver spleen 1NFLS Homo sepiens cDNA clone IMAGE:229510 5
9286	21886	34831	3.67	5.0E	-43 AA465288.1	EST_HUMAN	ea33d08.r1 NCI_CGAP_GCB1 Homo saplens cDNA clone IMAGE:815055 5

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	Top Hit Descriptor	0052c10 x5 NCI_CGAP_Lu5 Homo sepiens cDNA clone IMAGE:1569810 3' similar to TR:P90591 P90591 PV14 GENE.	DKFZ0434D0119 r1 434 (synonym: hies3) Homo seniens cDN4 clare DKEZ4424D0440	Homo sapiens CDNA	55e4 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA		Homo sapiens X-linked anhidroitic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat	ow47h03 x1 NCI CGAP Brn23 Home sepiens cDNA close IMACE (1680043 2)	SARS) mRNA	DHB6) mRNA	q176902.x1 NCI_CGAP_Kid3 Homo septens cDNA clone IMAGE:1865354 3' similar to contains MER10.t3 MER10 repetitive element:	q76s02.x1 NCI_CGAP_Kid3 Homo sepiens cDNA clone IMAGE:1865354 3' similar to contains MER10.t3		nomo sepiens zinc ringer protein 161 (ZNF161), mRNA	your control to be so the street of the stre		Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced		Homo sapiens mRNA for partial phospholipase D1, splice variant PLD1a/b2	AML1-EVI-1=AML1-EVI-1 fusion protein (rearranged translocation) [human, leukemic cell line SKH1, mRNA	intulant, 2950 mj	GIOLOGIA CIONA GIOTA DE LA TARA		Human ribosomal RNA upstream binding transcription factor (UBTF) gene partial cits	aa88f11 s1 Stratagene fetal retina 937202 Homo sapiens cDNA clone IMAGE:838413 3' similar to contains THR.t2 THR repolitive element:	011916), mRNA	Homo sapiens similar to ornithine carbamoyltransferase (H. sapiens) (LOC63648), mRNA	, a, a, a, a, a, a, a, a, a, a, a, a, a,
Single Exon Probes Expressed in Fetal Liver			Т	Т	Т	Г	Homo saplens X-linked anhidroitic	Τ	Т	Homo sapiens protocadherin beta 6 (PCDHB6) mRNA			T	Т	T		Homo sapiens calcium channel all spliced	H.sapiens gene encoding La autoantigen	Homo sapiens mRNA for partial p	AML1-EVI-1=AML1-EVI-1 fusion	Т	Т	Mus musculus otogelin (Otog), mRNA	Human ribosomal RNA upstream		Г	Homo sapiens similar to ornithine	
Exon Prop	Top Hit Database Source	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	Z	Ę	EST HUMAN	Z	LN L	EST_HUMAN	LOUIS LOUIS	ESI TUMAN	FOT HIMAN		EST_HUMAN	Ę	Z	FZ	Ŀ	FOT HIMAN		L	۲	EST HUMAN	5	ラ	
eignic	Top Hit Acession No	5.0E-43 AI733244.1		_	-43 W 29011.1	-43 X15804.1	-43 AF003528 1	T	6009669		AI244341.1	40	2005002	T77380 4		-43 R20950.1	3.0E-43 AF223391.1		3.0E-43 AJ276230.1	3 05 42 8 80000 4	1	7305360	7305360 NT	3.0E-43 U65487.1	_	7661721	11420217 NT	
	Most Similar (Top) Hit BLAST E Value	5.0E-43	5.0E-43	5.0E-43	5.0E-43	5.0E-43	4 0F-43	4.0E-43	4.0E-43	4.0E-43	4.0E-43	7 05 43	4.0F.43	4 0F 43		4.0E-43	3.0E-43	3.0E-43	3.0E-43	27 110 6	3.0E-43	3 OF-43	3.0E-43	3.0E-43	3.0E-43	3.0E-43	3.0E-43	
	Expression Signal	2.17	2.14	5.05	4.1	1.71	538	0.98	0.82	2.22	4.54	4 54	1 2	8		4.47	3.54	1.8	1.15	1 25	6.0	208	2.08	3.71	8.03	1.59	0.77	
	ORF SEQ ID NO:	35781	35821			36039	26133	30417	31892		33568	33560	35704	36736			-	26866	27323	28708	29411	31883	31884	32233		34213	35261	
	Exan SEQ ID NO:	16722				23030	15390	١.	19107	19716	20659	20650	1	23689		24189	13852		14753	16233	16965	19089	19099	19417	20645	21293	22276	
	Probe SEQ ID NO:	10297	10332	10644	10850	11332	1008	5464	6507	7184	8118	8118	10217	11184		11819	1255	1733	2176	3630	4378	6498	6498	6827	8104	8754	9778	

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).i.)	מאם הסמהו ויוסעם פולווים	
Probe E SEQ ID SE NO:	SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
196	12856		9.15	2.0E	43 AI190764.1	EST_HUMAN	qd61c09.x1 Soares_testis_NHT Homo sepiens cDNA clone IMAGE:1733968 3' similar to contains PTR7.t3 PTR7 PTR7 repetitive element ;
1089	19198	32003		2.0E-	43 BE222778.1	EST_HUMAN	hu53a08.x1 NCj_CGAP_Brn41 Homo sapiens cDNA done IMAGE:3173750 3' similar to contains element MER40 repetitive element ;
1099	19198	32004				EST_HUMAN	hu53a08.x1 NCI_CGAP_Bm41 Homo sapiens cDNA clone IMAGE:3173750 3' similar to contains element MER40 repetitive element;
7320	19847	32707			2.0E-43 AW 207390.1	T_HUMAN	UI-H-BI1-eft-a-09-0-UI.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2721712 3
8250	20791		9.58		2.0E-43 U43701.1		Human ribosomal protein L23a mRNA, complete cds
Ш	23591			2.0E-		- HUMAN	FB1G5 Fetal brain, Stratagene Homo sapiens cDNA clone FB1G5 3 end similar to LINE-1
1690	14282	26817	2.54	1.0E-		FZ	Homo sapiens Ras-like GTP-binding protein (KAB27A) gene, exons 1b and 2
	14282	26818		1.0E-			Homo sepiens Res-like GTP-binding protein (RAB27A) gene, excns 1b and 2
1743	14333	26879	1.63	1.0E-			Homo sapiens chromosome 21 segment HS21C084
L.	15305	27869	4.08	1.0E-	43 BF348283.1	T_HUMAN	602022313F1 NCI_CGAP_Bm67 Homo saplens cDNA done IMAGE:4157666 5
6723	19317	32120	8.22	1.0E-43		LN	Homo sapiens Sp4 transcription factor (SP4) mRNA
6723	19317	32121	9.22		4507168 NT	NT	Homo sapiens Sp4 transcription factor (SP4) mRNA
g c	89084	30456	α,	4 OF	43 R19751 1	EST HUMAN	yg40e01.r1 Soares infant brain 1NIB Homo sapiens cDNA clone IMAGE:34732 5 similar to SP:BD38 MOUSE P28656 BRAIN PROTEIN DN38 ;
7873	20415			106	43 AF175265.1	L	Homo sapiens vacuolar sorting protein 35 (VPS35) mRNA, complete cds
8010	20552			1.06	43 AF198490.1	NT	Homo sapiens 8q22.1 region and MTG8 (CBFA2T1) gene, partial cds
8771	21310	34233			1.0E-43 AW963676.1	EST_HUMAN	EST375749 MAGE resequences, MAGH Homo sapiens cDNA
10191	22686		0.65	1.0E	43 AW953229.1	EST_HUMAN	EST365299 MAGE resequences, MAGB Homo sapiens cDNA
10843	23364				1.0E-43 AI984961.1	EST_HUMAN	wr87h01,x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2494705 3'
11244	23774		3.74		11424378 NT	N-I	Homo sapiens calcium channel, voltage-dependent, alpha 1E subunit (CACNA1E), mKNA
11757	24152		1.95	1.0E	43 AL137964.1	EST_HUMAN	DKFZp761D1015_r1 761 (synonym; hamy2) Homo sapiens cDNA clone DKFZp761D1015 5
12054	24337	30888	3.9	1.0E-	AI67541	EST_HUMAN	wb99b04.x1 NCI_CGAP_Pr28 Homo sapiens cDNA clone IMAGE:2313/73 3
12286	24488	30842	4.3		11418322 NT	L'A	Homo sapiens cadherin EGF LAG seven-pass G-type receptor 1 (CELSK1), mKNA
823	13538	26054	5.83	L	8.0E-44 AI222985.1	EST_HUMAN	ا.–،
923	13538		5.83	8.0E	44 AI222985.1	EST_HUMAN	qh23g01.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone iMAGE:1845552 3
-							te76c08.xt Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2092622 3' similar to TR:P93107
5424	1/981			30.0	44 AIS61320.1	FO TOWN	U canione DNA for Cone COMP. DDF gene
8476	21015	١		8.0E	44 X94354.1	Z :	n.septens print to country to be septens but the things to be septens but the things to be septens but the things to be septens but the things to be septens but the things to be septens but the things to be septens but the things to be septens but the things to be septens but the things to be septens but the things th
11043	23557			8.0E	44 Y10498.2	L	Homo saptens mixing to dyminione runase, partial
11536	23984				85185	Z	Home contains advances (PNA) II (DNA directed) reduced to (POI R25) mRNA
12008	24310	30992	2.76	3 8.0E-44	11527389[NI	N	Tromo sapiens poyntedase (N.Y.) I (D.Y.) allocado poyntedas (N.Y.) (D.Y.)

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	Top Hit Descriptor	Homo sapiens protein kinase C, alpha binding protein (PRKCABP), mRNA	T	Homo sapiens LIM domain-containing preferred translocation partner in lipoma (LPP) mRNA	Homo sapiens minisatellite ms32 repeat region	Homo sapiens minisatellite ms32 repeat region	Homo sapiens chromosome 21 segment HS21C084	Homo sapiens chromosome 21 unknown mRNA	Homo sapiens chromosome 21 unknown mRNA	J AU159839 Y79AA1 Homo sapiens cDNA clone Y79AA1000496 3'	I	Г	Homo sapiens KIAA0851 gene (partial), XT3 gene and LZTFL1 gene	Homo sapiens KIAA0851 gene (partial), XT3 gene and LZTFL1 gene				Homo saplens chromosome 21 segment HS21C103	Г	Human fibrillin (FBN1) locus polymorphism	I RC3-HT0585-010400-023-d08 HT0585 Homo sapiens cDNA	Homo sapiens carboxy terminal LIM domain protein (CLIM1) mRNA, complete cds	Homo sapiens karyopherin alpha 6 (importin alpha 7) (KPNA6), mRNA	П	EST42299 Endometrial tumor Homo sabiens cDNA 5' end similar to similar to ainha-1-entinnolainese E	1	Π	Home sapiens DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 1 (DDX1) mRNA	Homo saplens DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 1 (DDX1) mRNA	Homo sapiens transmembrane trafficking protein (TMP21), mRNA	Homo sapiens transmembrane trafficking protein (TMP21), mRNA	Homo sapiens RAB36 (RAB36) mRNA, complete cds	hw14g06.x1 NCI_CGAP_Lu24 Homo sepiens cDNA clone IMAGE:3182938 3' similar to SW:OXYB_HUMAN P22059 OXYSTEROL-BINDING PROTEIN.;
	Top Hit Database Source	NT.	EST HUMAN	Z	N	L	NT	Z.	N F	EST_HUMAN	EST_HUMAN	EST_HUMAN	Z L	۲		EST_HUMAN	EST_HUMAN	NT	EST_HUMAN	N	EST_HUMAN	L	IN	EST_HUMAN	EST HUMAN	EST_HUMAN	N F	۲Z	EZ	NT	NT	NT	EST_HUMAN
26	Top Hit Acession No.	11418099 NT	-44 R06035.1	5031886 NT	7.0E-44 AF048729.1		7.0E-44 AL163284.2	-44 AF231919.1	-44 AF231919.1	-44 AU159839.1	-44 220946.1	6.0E-44 AW954050.1	-44 AJ289880.1	-44 AJ289880.1		-44 AI568523.1		4.0E-44 AL163303.2	:-44 AI435225:1		4.0E-44 BE176618.1	44 U90878.1	6912477 NT	-44 AA169851.1	-44 AA337234.1	-44 BF691060.1	44 AF005273.1	4826685 NT	4826685 NT	5803200 NT	5803200 NT	-44 AF133588.1	E-44 BE465325.1
	Most Similar (Top) Hit BLAST E Value	8.0E-44	7.0E-44	7.0E-44	7.0E-44	7.0E-44	7.0E-44	7.0E-44	7.0E-44	7.0E-44	6.0E-44	6.0E-44	5.0E-44	5.0E-44		5.0E-44	5.0E-44	4.0E-44	4.0E-44	4.0E-44	4.0E-44	4.0E-44	3.0E-44	3.0E-44	3.0E-44	3.0E-44	3.0E-44	2.0E-44	2.0E-44	2.0E-44	2.0E-44	2.0E-44	2.0E-44
	Expression Signal	2.39	0.83	1.12	2.84	2.84	2.76	96'0	96:0	6.38	0.77	2.92	3.12	1.75		3.5	1.85	2.18	1.16	0.76	0.54	7.04	1.09	5.8	2.94	2.57	0.56	2.13	2.13	2.99	2.99	4.41	1.38
	ORF SEQ ID NO;	30703						29354	29355	33576	31633	37118				33278		28541		33670		36668		28215	29028	30373	34913	26201	26202	26363	26364	26475	26533
	Exan SEQ ID NO:	24859	13311		15609							24054		13003		ı	- 1	16068	-	20756	ı	23626		15746	16557	17962	21964	13692				13949	14005
	Probe SEQ ID NO:	12419	687	2276	2993	2993	3929	4326	4326	8126	6252	11611	325	354	200	/829	9308	3461	5158	8215	8811	11117	1821	3132	3929	5404	9438	1087	1087	1249	1249	1355	1412

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Probe SEQ ID NO: 2186 2641 3517 4689 5441 7444 7444 7444 8367 8367 12608 56 606 606 606 606 2266 2266 2321	Exon NO: NO: 14772 15200 17251 17251 17256 1864 1864 19668 20907 20907 20907 20907 13234 13234 14840 14840 15463	ORF SEQ. ID NO: 27346 28602 28602 28703 30401 31828 33828 33828 33828 33828 25208 25208 27416 27416	Expression Signal 1.71 2.07 1.05 1.05 4.03 4.03 4.03 4.03 68.7 1.47 1.47 1.03 5.03 5.03 5.03 7.47 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03	Most Simil (TOD) High Most Simil (TOD) High	Similar Similar No. SIMI Top Hit Acession No. Salue No. 2.0E -44 AF070651.1 NT 2.0E -44 AF070651.1 NT 2.0E -44 AF038968.1 ES 2.0E -44 AF038968.1 ES 2.0E -44 AF038968.1 ES 2.0E -44 AF038968.1 ES 2.0E -44 AF038968.1 ES 2.0E -44 AF038908.1 ES 2.0E -44 AF0	Top Hit Detabase Source Source Source NT NT NT NT NT NT NT NT NT NT NT EST HUMAN EST HUMAN EST HUMAN EST HUMAN EST HUMAN EST HUMAN EST HUMAN	Homo saplens tissue-type barie marrow zinc finger prictein 4 mRNA, complete ads Homo saplens deapter-related protein complex 4, sigma 1 subunit (CLAPS4), mRNA Homo saplens DNA for amyldid precures protein, complete ads Homo saplens deapter-related protein complex 4, sigma 1 subunit (CLAPS4), mRNA Homo saplens deapter-related protein kinase kinase kinase kinase sinase sin
3788	上	L		L	-44 AA455869.1	EST_HUMAN	aa01c09.s1 Soares_NhHMPu_S1 Homo saplens cDNA clone IMAGE:811984 3'
8208					1.0E-44 AW967073.1	EST_HUMAN	EST379147 MAGE resequences, MAGJ Homo sapiens cDNA
8208					1.0E-44 AW967073.1	EST_HUMAN	EST379147 MAGE resequences, MAGJ Homo sapiens cDNA
8580	L				1.0E-44 AL163209.2	LN L	Homo sapiens chromosome 21 segment HS21C009
8926	Ш		0.68	Ц	1.0E-44 Al337183.1	EST_HUMAN	qx88g07.x1 NCI_CGAP_GC6 Hamo sapiens cDNA clone IMAGE:2009628 3'

. Page 288 of 526 Table 4 Single Exon Probes Expressed in Fetal Liver

Single Exon Probes Expressed in Fetal Liver	Top Hit Descriptor	AV714608 DCB Homo septens cDNA clone DCBBYE03 5'	Homo sapiens Sushi domain (SCR repeat) containing (BK65A6.2), mRNA	RC1-CT0198-150999-011-C08 CT0198 Homo sapiens cDNA	RC1-CT0198-150999-011-C08 CT0198 Homo saplens cDNA	Homo sapiens hypothetical protein FLJ10379 (FLJ10379), mRNA	Homo sapiens hypothetical protein FLJ10379 (FLJ10379), mRNA	Homo sapiens mRNA for KIAA0995 protein, partial cds	Homo sapiens TRK-fused gene (NOTE: non-standard symbol and name) (TFG) mRNA	Homo sapiens TRK-fused gene (NOTE: non-standard symbol and name) (TFG) mRNA	EST90893 Synovial sarcoma Homo sapiens cDNA 5' end	Novel human gene mapping to chomosome 22	au83h07.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2782909 3' similar to	SW:R13A_HUMAN P40429 BOS KIBOSOMAL PROTEIN L13A:	Homo sapiens ADP-ribosylation factor GTPase activating protein 1 (ARFGAP1), mRNA	Homo sapiens chromosome 21 segment HS21C003	CM4-CN0044-180200-515-f01 CN0044 Homo sapiens cDNA	tg94f07.x1 NCI_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:2116453 3' similar to SW:PAX1 MOUSE	9084 PAIRED BOX PROTEIN PAX-1.;	zt7zd03.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:727877 3' similar to contains element TAR1 repetitive element:	Homo sapiens MCP-1 gene and enhancer region	Homo sapiens MCP-1 gene and enhancer region	Homo sapiens mRNA for inducible nitric oxide synthase, complete cds	Homo sapiens mRNA for inducible nitric axide synthase, complete cds	Homo sapiens zinc finger protein 277 (ZNF277), mRNA	Homo sapiens zinc finger protein 277 (ZNF277), mRNA	Homo sapiens bone morphogenetic protein 5 (BMP5), mRNA	Homo sapiens programmed cell death 5 (PDCD5), mRNA	Homo sapiens galgin-like protein (GLP), mRNA	H.sapiens ART4 gene	601194440F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3538425 5'	Homo saplens TRAF family member-associated NFKB activator (TANK) mRNA	nc26e07.s1 NCI_CGAP_Pr1 Homo sapiens cDNA clone IMAGE:1009284 similar to contains element L1 repetitive element;
Exon Probes E	Top Hit Database Source	T_HUMAN		HUMAN	EST_HUMAN R						EST_HUMAN ES	NT		HOMAN		H	EST_HUMAN C	Γ	EST HUMAN PC	EST HUMAN TA			NT HO	NT						'H IN	T_HUMAN		EST_HUMAN ret
Single	Top Hit Acession No.	DE-44 AV714608.1	2684		AW846967.1	8922391 NT	8922391 NT		8.0E-45 5174718 NT	5174718 NT		E-45 AL 160131.1		6.0E-45 AW 15/5/0.1	18213		5.0E-45 BF333627.1		E-45 AI523766.1		5.0E-45 Y18933.1				11496268 NT	11496268 NT	11418704 NT	4759223 NT	8923698	E-45 X95826.1	E-45 BE265622.1	4759249 NT	4.0E-45 AA226220.1
	Most Similar (Top) Hit BLAST E Value	1.0E-44	1.0E-44	1.0E-44	1.0E-44	9.0E-45	9.0E-45	9.0E-45	8.0E-45	8.0E-45	8.0E-45		37 30 8	0.0E-43	6.0E-45	5.0E-45	5.0E-45		5.0E-45	5.0E-45	5.0E-45	5.0E-45	5.0E-45	5.0E-45	5.0E-45	5.0E-45	5.0E-45	5.0E-45	5.0E-45	4.0E-45	4.0E-45	4.0E-45	4.0E-45
	Expression Signal	11.29	5.07	3.83	3.83	1.31	1.31	1.34	6.45	7.14	0.84	0.99	9	SC.O	2	1.34	12.03		2.25	8.34	1.1	1.1	1.15	1.15	1.82	1.82	0.51	1.79	2:52	11.57	21.18	89.0	0.86
	ORF SEQ ID NO:							32159			33501						27196		28341	30832	31548	31549	31596	31597	31720	31721	33673	34431	37062	26294	27472	29635	
	Exon SEQ ID NO:	23413	23855	23910	23910		17260		15129	17805	20593	15600	18847	3	25063	13538	14627		15858	18329	18782	18782	18825	18825	18942	18942	20759	21509	23990	13784	14901	17188	21424
	Probe SEQ ID NO:	10892	11404	11460	11460	4678	4678	6757	2565	5241	8051	2984	4050	200	12385	925	2045		3248	5703	6170	6170	6215	6215	6336	6336	8218	8971	11542	1183	2330	4605	8886

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Top Hit Descriptor	ho36h04.x1 NCI_CGAP_Ut1 Homo saplens cDNA clone IMAGE:3039511 3' similar to contains MER29.b3 MER29 repetitive element;	Homo sapiens chromosome 12 open reading frame 3 (C12ORF3), mRNA	602084052F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4248253 5'	yd35f07.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:110245 5'	Mus musculus dynein, axon, heavy chain 11 (Dnahc11), mRNA	Mus musculus dynein, axon, heavy chain 11 (Dnahc11), mRNA	AV723976 HTB Homo sapiens cDNA clone HTBAAG01 5'	Homo sapiens golgi autoantigen, golgin subfamily a, 2 (GOLGA2) mRNA	Homo sapiens chromosome 21 segment HS21C027	Homo sapiens chromosome 21 segment HS21C027	Homo sapiens chromosome 21 segment HS21C018	Homo sapiens partial 5-HT4 receptor gene, exons 2 to 5	Human eosinophii Charcot-Leyden crystal (CLC) protein (lysophospholipase) gene, promoter and exon 1	801467783F1 NIH_MGC_67 Hamo sapiens cDNA clone IMAGE:3870838 5'	RC0-LT0001-150200-032-d11 LT0001 Homo sapiens cDNA	MR0-HT0923-190800-201-a02 HT0923 Homo sapiens cDNA	aa87712.r1 Stratagene fatal retina 837202 Homo sapiens cDNA clone IMAGE:838319 5' similar to TR:C3144569 C3144569 R-SLY1. :	p72a03.x1 NCI_CGAP_Ov40 Homo sapiens cDNA clone IMAGE:2745868 3'	xp72a03.x1 NCI_CGAP_Ov40 Homo sapiens cDNA clone IMAGE:2745868 3'	Homo sapiens calcium channel, voltage-dependent, alpha 11 subunit (CACNA11), mRNA	601284360F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3606183 5	601284360F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3606183 5	Homo sapiens RAP1A, member of RAS oncogene family (RAP1A), mRNA	Homo sapiens Langerhans cell specific c-type lectin (LANGERIN), mRNA	Human pro-a2 chain of collagen type XI (COL11A2) gene, complete cds	Homo sapiens chromosome 21 open reading frame 1 (C21orf4), mRNA	Homo sapiens mRNA for KIAA1591 protein, partial cds	601289116F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3619803 5	Homo sapiens oxysterol 7alpha-hydroxylase (CYP39A1), mRNA	Homo sapiens peroxisomal biogenesis factor 14 (PEX14), mKNA	Homo sapiens peroxisomal biogenesis lactor 14 (PEA) 4), malak
Top Hit Database Source	EST_HUMAN		EST_HUMAN	EST_HUMAN			T HUMAN		LN⊤			NT	L	HUMAN	П	EST_HUMAN		EST HUMAN	1		EST_HUMAN	T_HUMAN	LNT	NT	ΤN	TN	N⊤	EST_HUMAN	N	Ľ.	LZ.
Top Hit Acession No.	45 BE044076.1	5947	4.0E-45 BF676077.1		6753651 NT	6753651 NT	45 AV723976.1	4758451 NT	3.0E-45 AL163227.2		45 AL 163218.2	45 AJ243213.1	45 L01665.1	<u>-</u>	45 AW834834.1	45 BE934350.1				11418157 NT	45 BE389855.1	45 BE389855.1	4506412 NT	7657290 NT	45 U32169.1	B659558 NT	45 AB046811.1	1.0E-45 BE396633.1	7706128 NT	11422236 NT	11422236 NT
Most Similar (Top) Hit BLAST E Value	4.0E-45	4.0E-45	4.0E-45	3.0E-45 T71480.1	3.0E-45	3.0E-45	3.0E-45 /	3.0E-45	3.0E-45	3.0E-45	2.0E-45	2.0E-45	2.0E-45 l	2.0E-45	2.0E-45	2.0E-45	200	2.0E-45	2.0E-45	2.0E-45	1.0E-45		1.0E-45	1.0E-45	1.0E	1.0E	1.0E	1.0E-45	1.0E	1.0E-45	1.0E-45
Expression Signal	2.17	1.66	2.14	1.32	1.29	1.29	1.29	3.78	11.34	11.34	4.13	0.99	5.48	1.35	0.75	28.86	90. 9	0.33	2.33	2.42	2.71	3.24	1.61	1.54	10.2	0.88	99.0	5.67	11.79		0.71
ORF SEQ ID NO:		30613			31767			34185			L	28154		l		L	<u> </u>						25619					28602	30311		33423
Exon SEQ ID NO:	24071	L	L				Н	1			15111	15682	1	1	1			10007	1	1				L		L		L	17896	20516	
Probe SEO ID NO:	11629	11673	12278	4161	6383	6383	8388	8728	10209	10209	2547	3067	6844	7805	8354	10682		11000	11378	12548	129	434	498	1216	3137	3539	3632	4575	5335	7974	7974

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ביארון ביוספס ראלין פססס ווין פופן דואפן	Top Hit Descriptor	Homo sapiens DNA for amyloid precursor protein, complete cds	801511226F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3912535 5'	Human mRNA for KIAA0299 gene, partial cds	Homo sapiens protein kinase C, alpha binding protein (PRKCABP), mRNA	Homo sapiens hypothetical protein FLJ20454 (FLJ20454), mRNA	Homo sapiens Ran GTP ase activating protein 1 (RANGAP1), mRNA	Homo sapiens calcium channel, voltage-dependent, alpha 11 subunit (CACNA11), mRNA	Mus musculus keratin complex 2, gene 6g (Krt2-6g), mRNA	Homo sapiens chromosome 21 segment HS21C009	2822449.5prime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2822449 5'	1832/08.x1 NCI_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2132199 3' similar to gb:J00314_ma2 TUBULIN BETA-1 CHAIN (HUMAN):	832/08.x1 NCI_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2132189 3' similar to gb:J00314_rna2_TIBH if N BETA-1 CHAIN JH IMANN:	IRCS-HT0506-280200-012-C12 HT0506 Home sapiens cDNA	Homo sablens ribosomal profein (44 (RPI 44) mRNA	Rattus norvegicus espin mRNA, complete cds	601277292F1 NIH_MGC_20 Homo saplens cDNA clone IMAGE:3618119 5	RC4-BT0310-110300-015-f10 BT0310 Homo sapiens cDNA	Homo sapiens hypothetical protein FLJ10847 (FLJ10847), mRNA	601822835F1 NIH_MGC_77 Home sapiens cDNA clone IMAGE:4042736 5'	Homo sapiens chromosome 21 segment HS21C046	wm31f08.x1 NCI_CGAP_Ut4 Homo sapiens cDNA clone IMAGE:2437575 3' similar to contains MER19.t2 MER19 repetitive element;	wm31f08.x1 NCI_CGAP_Ut4 Home saplens cDNA clone IMAGE:2437575 3' similar to contains MER19.t2 MER19 repetitive element:	ISSBN10.X1 NCI_CGAP_KidB Homo sapiens cDNA clone IMAGE:2232835 3' similar to TR:060363 060363 SA GENE.;	xx42e04.x1 NCI_CGAP_Ut1 Homo sapiens cDNA clone IMAGE:2706654 3' similar to gb:L08069 DNAJ PROTEIN HOMOLOG 2 (HUMAN):	801478409F1 NIH MGC 68 Homo sapiens cDNA clone IMAGE 3880995 5	Homo sapiens chromosome 21 segment HS21C010	7d81g01.x1 Lupski_darsal_root_ganglion Homo sapiens cDNA clone IMAGE:3279408.3	7d81g01.x1 Lupski_dorsal_root_ganglion Homo sapiens cDNA clone IMAGE:3279408 3'
באמון ו וממין	Top Hit Database Source	TN	EST_HUMAN	N-I	ΙZ	NT	N	TN	۲	NT	EST_HUMAN	EST_HUMAN	MANNI ILI	EST HUMAN	LN	k	EST_HUMAN	EST_HUMAN	N	EST_HUMAN	TN	EST_HUMAN	EST HUMAN	EST_HUMAN	EST HUMAN	EST HUMAN	N	EST_HUMAN	EST_HUMAN
	Top Hit Acession No.	E-45 D87675.1	E-45 BE887843.1	E-45 AB002297.1	11418099 NT	11526291 NT	11418177 NT	11418157 NT	9910293 NT		9.0E-46 AW246964.1	8.0E-46 AI433261.1	8 OF -46 A 1433281 1	8.0E-46 BE167244.1	11419729 NT	J46007.1	7.0E-46 BE386165.1	7.0E-46 BE064386.1	TN 8922708	7.0E-46 BF105845.1	7.0E-46 AL163246.2	E-46 A1884381.1	6.0E-46 Al884381.1	6.0E-46 AI635448.1	6.0E-46.AW513244.1			5.0E-46 BE677194.1	П
	Most Similar (Top) Hit BLAST E Value	1.0E-45	1.0E-45	1.0E-45	1.0E-45	1.0E-45	1.0E-45	1.0E-45	9.0E-46	9.0E-46	9.0E-46	8.0E-46	R OF 48	8.0E-46	8.0E-46	7.0E-46 U46007.1	7.0E-46	7.0E-46	7.0E-48	7.0E-46	7.0E-46	6.0E-46	6.0E-46	6.0E-46	6.0E-46	6.0E-46	5.0E-46	5.0E-46	5.0E-46
	Expression Signal	0.88	4.07	96.0	4.89	9.84	10.36	3,46	1.87	6.51	10.22	9.69	090	8.07	2.67	1.07	6.38	96.0	3.72	1.29	1.6	3.13	3.13	9.32	0.83	2.81	5.85	1.37	1.37
	S G							30895			35861	27622	27623			27432			31572	32022		27906	27907	31655	32653			28667	
	Exon SEQ ID NO:	21082	21586	21967	24225	24346	24349	24632	20711	21108	22868	15051	15051	20540	23961	14854	17262	17504	18803	19217	24428	15336	15336	18886	19797	23006	12879	16185	16185
	Probe SEQ ID NO:	8543	9049	9441	11875	12063	12068	12513	8170	8569	10374	2486	2486	7998	11513	2280	4680	4929	6193	6620	12203	2783	2783	6278	7269	11268	218	3581	3581

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Single Exon Probes Expressed in Petal Liver	Top Hit Acession Top Hit Descriptor Top Hit Descriptor Source	48 BF590442.1 EST_HUMAN	EST_HUMAN	5.0E-46 AW582253.1 EST_HUMAN QV4-ST0212-120100-075-f09 ST0212 Homo sapiens cDNA	E-46 AA398381.1 EST_HUMAN #0208.s1 Soares_tests_NHT Homo sapiens cDNA clone IMAGE:728928.3'	no54e09.s1 NCI_CGAP_SS1 Homo saplens cDNA clone IMAGE:1104520 3' similar to gb:X53741_ma1	hi88c03.x1 NCI_CGAP_Lu24 Homo saplens cDNA clone IMAGE:300836 3' similar to gb:X14008_ma1 E-46 AW 770544.1	48 AW 770544.1 EST HUMAN	-46 M18048.1 NT	-46 M36852.1 NT	-46 M36852.1 NT	-46 AB002059.1	E-46 4506376 NT Home sapiens mitogen-activated protein kinase kinase kinase 3 (MAP4K3), mRNA	E-46 273660.1 NT H.sapiens ig lambda light chain variable region gene (7c.11.2) germline: Ig-Light-Lambda; VLambda	E-46 273660.1 NT H.sapiens ig lambda light chain variable region gene (7c.11.2) germline; Ig-Light-Lambda; VLembda	48 A1831462.1 EST HUMAN	46 L08850.1	E-46[L08850.1 NT Human AD amyloid mRNA, complete cds	-46 D31765.1		E-40 AA468646.1 EST HUMAN INPOLUNG General Inc. colon. INELS ST Home conjune ADNA close INVACE 731008.91	46 U78027.1 NT	2.0E-46 A4389286.1 EST_HUMAN Q01730 RSP-1 PROTEIN ;
	Most Similar (Top) Hit BLAST E Value	5.0E-46 BF59	5.0E-46 BF34	5.0E-46 AWS	5.0E-46 AA39	4.0E-46 AA60	4.0E-46 AW 7	4.0E-46,AW7	4.0E-46 M180	4.0E-46 M368	4.0E-46 M368	4.0E-46 AB00	3.0E-46	3.0E-46 Z736	3.0E-46 Z736	3.0E-48 A1831	3.0E-46 L088	3.0E-46 L088	3.0E-46 D317	0, 100	2.0E-46 AA46	2.0E-46 U780	2.0E-46 AA39
	Expression ('Signal B	1.83	3.81	0.74	0.48	1.73	3.96	3.98	3.11	2.09	2.09	1.86	0.81	0.98	0.98	7.65	0.58	0.58	3.14		6.24	2.17	1.2
	ORF SEO ID NO:	32239	32380	32526	34992		26875	26876	27887	30727	30728	30921	29517	29918	29919	34143	34392	34393	36961		7000	26808	30119
Ī	SEQ ID	19423	19555	19684	22033	13293	14331	14331	15321	18257	18257	24518	17067	17464	17464	21223	21473	21473	23896	1	13480	14275	17682
	Probe SEQ ID NO:	6833	7021	7152	9533	699	1741	1741	2767	5828	5628	12332	4482	4889	4889	8684	8835	8935	11448	į	2 20	1683	5110

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	_	_	-	_			_		_				_	_			_	_		_							_	_		
Top Hit Descriptor	Mus musculus sperm tail associated protein (Stap), mRNA	601445137F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3849297 5	Homo sapiens small acidic protein (IMAGE145052), mRNA	601765225F1 NIH_MGC_53 Homo saplens cDNA clone IMAGE:3997326 5	2084112.r1 Soares fetal liver spleen 1NFLS S1 Homo sapiens cDNA clone IMAGE 428015.5	xq78h03.x1 NCI_CGAP_Lu34 Homo sapiens cDNA clone IMAGE:2756789 3	Homo sepiens cell division cycle 10 (homologous to CDC10 of S. cerevisiae) (CDC10) mRNA	EST390625 MAGE resequences, MAGP Homo saplens cDNA	EST48b095 WATM1 Hamo saplens cDNA clone 48b095	np78b02.s1 NCI_CGAP_Pr2 Homo sapiens CDNA clone IMAGE:1132395 similar to gb:X76717 H.sapiens MT-11 mRNA. (HUMAN):	Homo sapiens mRNA for KIAA0980 protein, partial cds	7c92b01.x1 NCI_CGAP_Ov18 Homo sapiens cDNA clone IMAGE.3643705 3	Homo sapiens centaurin-alpha 2 protein (HSA272195), mRNA	Homo sapiens centaurin-alpha 2 protein (HSA272195), mRNA	7n48e07.x1 NCI_CGAP_Lu24 Homo saplens cDNA clone IMAGE:3567652 3' similar to contains element MER22 repetitive element	7092b01.xf NCI CGAP Ov18 Homo sepiens cDNA clone IMAGE:3843705.3	802072284F1 NCI CGAP Brn67 Homo saciens cDNA clone IMAGE 4215398 5	602072264F1 NCI_CGAP_Bm67 Homo sapiens cDNA clone IMAGE 4215398 5	AV715377 DCB Homo sapiens cDNA clone DCBAIE03 5'	Homo sapiens Xq pseudoautosomal region; segment 1/2	higase4.x1 NCI_CGAP_Lu24 Home sapiens cDNA clone IMAGE:3009634.3' similar to TR:075703 075703 HYPOTHETICAL 12.4 KD PROTEIN :	Homo sapiens zinc finger protein ZNF286 (ZNF286), mRNA	Homo saplens SEC14 (S. cerevisiae)-like 2 (SEC14L2), mRNA	Homo sapiens HLA-C gene, exon 5, individual 19323	Homo sapiens HLA-C gene, exon 5, individual 19323	Homo sapiens protein phosphatase 2, regulatory subunit B (B56), absilon isoform (PDP2/R5F) mRNA	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21a22 segment 3/3	Homo sapiens mRNA for GCK family kinase MINK-2, complete cds	Homo sapiens mRNA for GCK family kinase MINK-2, complete cds	AV683284 GKC Homo sapiens cDNA clone GKCASH11 5'
Top Hit Datebase Source	N	EST_HUMAN	Σ	EST HUMAN	EST HUMAN	EST_HUMAN	ķ	EST HUMAN	EST_HUMAN	EST HUMAN	N	EST_HUMAN	Σ	LN	EST HUMAN	EST HUMAN	EST HUMAN	EST_HUMAN	EST_HUMAN	LΝ	EST HUMAN	Z	Ā	Z	LZ	F	L	닏	LNT	EST_HUMAN
Top Hit Acession No.	9910569 NT	E-46 BE869151.1	7657233 NT	E-46 BF028854.1	AA001786.1	2.0E-46 AW277214.1	4502694 NT	1.0E-46 AW978516.1	1.0E-46 H97330.1	E-46 AA631912.1	E-46 AB023197.1	E-46 BF194707.1	8923762 NT	8923762 NT	E-46 BF196247.1	E-46 BF194707.1	E-46 BF531102.1	E-46 BF531102.1	1.0E-46 AV715377.1	E-47 AJ271735.1	9.0E-47 AW 770928.1	11425439 NT	11417966 NT	8.0E-47 Y18536.1	8.0E-47 Y18536.1	5453955 NT		8.0E-47 AB041926.1		2-47 AV683284.1
Most Similar (Top) Hit BLAST E Value	2.0E-46	2.0E-46	2.0E-46	2.0E-46	2.0E-46	2.0E-46	1.0E-46	1.0E-46	1.0E-46	1.0E-46	1.0E-46	1.0E-46	1.0E-46	1.0E-46	1.0E-46	1.0E-48	1.0E-46	1.0E-46	1.0E-46	9.0E-47	9.0E-47	9.0E-47	9.0E-47	8.0E-47	8.0E-47	8.0E-47	8.0E-47	8.0E-47	8.0E-47	7.0E-47
Expression Signal	6.85	1.81	1.56	1.74	1.43	5.26	5.79	4.58	2.81	22.33	3.21	11.77	4.79	4.79	0.72	4.43	1.97	1.97	1.39	3.52	2.39	82.0	3.64	16.42	16.42	1.1	2.05	9.0	0.8	1.55
o Big ⊡	32884						76391	27467	,	28375			31500	31501	32124	31226		31038			30081	31903	30627	26985	26966	27864	28150	28756	28757	
Exon SEQ ID NO:			23633	24963	24361		13871	14892	15010	15897	17572		24757	24757	19319	18500	24196	24196		13415	17638	19114		14432	14432				1	24845
Probe SEQ ID NO:	7497	8014	11125	11802	12094	12408	1276	2320	2443	3286	4999	5878	6131	6131	6725	10742	11831	11831	12626	798	5065	6514	12355	1844	1844	2742	3058	3686	3686	12436

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				Mort Similar			
Probe SEQ ID NO:	SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	i ± m	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
9200	21717	34661	6.33	6.0E-47	-47 AI695189.1	EST HUMAN	tz98h02.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2298659 3'
9628	22128	35091	0.69	6.0E-47	-47 AB042824.1	NT	Homo sapiens RECQL5 beta mRNA for DNA helicase recQ5 beta, complete cds
8628	22128	35092	90.0	6.0E-47	-47 AB042824.1	LN	Homo sapiens RECQL5 beta mRNA for DNA helicase recQ5 beta, complete cds
9691	L		5.97	5.0E-47	11423972 NT	LN	Homo sapiens CDC37 (cell division cycle 37, S. cerevisiae, homolog) (CDC37), mRNA
10874	L			5.0E-47	5.0E-47 M78590.1	EST_HUMAN	EST00738 Fetal brain, Stratagene (cat#936206) Homo sapiens cDNA clone HFBCF07
1445		26567		4.0E-47	TN 9527556 NT	LN	Homo saplens E1A binding protein p300 (EP300) mRNA
6920	1	L		4.0E-47	4.0E-47 BE938896.1	EST_HUMAN	MR4-TN0108-280800-201-d04 TN0108 Homo sapiens cDNA
8417			2.47	4.0E-47	4.0E-47 BE616483.1	EST_HUMAN	801280486F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3822437 5
8417	1_	L		4.0E-47	4.0E-47 BE616483.1	EST_HUMAN	601280486F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3622437 5
8553		34012		4.0E-47	4.0E-47 AW993777.1	EST_HUMAN	RC3-BN0034-220300-015-f05 BN0034 Homo sapiens cDNA
							xx68b07.x1 NCI_CGAP_Lym12 Homo sapiens cDNA clone IMAGE:2848597 3' similar to SW:INT6_MOUSE
11494	23943		6.19		4.0E-47 AW 515509.1	EST_HUMAN	Q64252 VIRAL INTEGRATION SITE PROTEIN INT-8. [1]
929	_	25682	3.11	3.0E-47	3.0E-47 BE907634.1	EST_HUMAN	601497639F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3899721 5
570		L	3.11	3.0E-47	3.0E-47 BE907634.1	EST_HUMAN	601497639F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3899721 5
851	L	L			3.0E-47 N57483.1		yy54b04.s1 Soares_multiple_scierosis_2NbHMSP Homo sapiens cDNA clone IMAGE:277327 3
88	L	L			3.0E-47 AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
3343	L			3.0E-47	4504116 NT	ΝΤ	Homo sapiens glutamats receptor, tondropic, kainate 1 (GRIK1) mRNA
4038	L	L		3.0E-47	3.0E-47 U93181.1	Z	Homo sapiens nuclear dual-specificity phosphatase (SBF1) mRNA, partial ods
8183	L	31538		3.0E-47	AW 408800.1	EST HUMAN	UIHF-BM0-adx-d-07-0-UI.1 NIH_MGC_38 Homo sapiens cDNA clone IMAGE:3063205 5'
348	L			3.0E-47	-47 AW 408800.1	EST HUMAN	UI-HF-BM0-adx-d-07-0-UI.r1 NIH_MGC_38 Homo saplens cDNA clone IMAGE:3063205 5'
Sego	L			3.0E-47	-47 AI222413.1	EST HUMAN	qh04e07.x1 Soares_NFL_T_GBC_S1 Homo saplens cDNA clone IMAGE:1843716 3'
7418	1	32806		3.0E	-47 AI819755.1	EST HUMAN	wj11h08.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE.2402559 3'
7416	1			3.0E	-47 AI819755.1	EST_HUMAN	wj11h08.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2402559 3'
8767	l_	L		3.05	-47 AW 963796.1	EST_HUMAN	EST375869 MAGE resequences, MAGH Homo sapiens cDNA
8767	<u> </u>			3.05	-47 AW963796.1	EST_HUMAN	EST375869 MAGE resequences, MAGH Homo sapiens cDNA
159	L	l		L	4505318 NT	١	Homo sapiens myosin phosphatase, target subunit 2 (MYPT2), mRNA
1003	L			2.0E	-47 AL163209.2	LZ L	Homo sapiens chromosome 21 segment HS21C009
1001	L			2.0€	-47 AL163209.2	E	Homo sapiens chromosome 21 segment HS21C009
1613	L			2.0E	-47 Al969279.1	EST_HUMAN	wq98b02.x1 NCI_CGAP_GC8 Homo sapiens cDNA clone IMAGE:2479851 3'
1637		26762	-	L	7662109 NT	١	Homo sapiens KIAA0426 gene product (KIAA0426), mRNA
1717					2.0E-47 AA524514.1	EST_HUMAN	ng43h12.s1 NCI_CGAP_Co3 Homo sapiens cDNA clone IMAGE:937607 3'
4439	L		1.88		4504866 NT	Ľ N	Homo sapiens ring finger protein (C3HC4 type) 8 (RNF8), mRNA
4473		L			2.0E-47 AA569592.1	EST_HUMAN	nf23g07.s1 NCI_CGAP_Pr1 Homo sapiens cDNA clone IMAGE:914652
4473		9 29507		L	2.0E-47 AA569592.1	EST_HUMAN	nf23g07.s1 NCI_CGAP_Pr1 Home saplens cDNA clone IMAGE:914652
	J						

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					_		_		_	_	_	_	_		_	Τ-			T	T		Т	1		$\overline{}$	т		\Box		T 3
	Top Hit Descriptor	Homo sapiens RewRex activation domain binding protein-related (RAB-R) mRNA	EST377239 MAGE resequences, MAGI Homo sapiens cDNA	Homo sapiens regulator of G-protein signaling 6 variant form (RGS6) mRNA, complete cds	601463932F1 NIH_MGC_67 Hamo sapiens cDNA clane IMAGE:3867487 5'	601463932F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3867487 5'	Homo sapiens 5-hydroxytryptamine 1D receptor pseudogene with an Alu repeat insertion	Homo saplens DNA for amyloid precursor protein, complete cds	Homo sapiens DNA for amyloid precursor protein, complete cds	Homo sapiens SPH-binding factor mRNA, partlal cds	Homo sapiens BTG family, member 3 (BTG3), mRNA	yf92e08.s1 Soares Infant brain 1NIB Homo sapiens cDNA clone IMAGE:29966 3' similar to contains OFR	repetitive element;	qp99h03.x1 Soares_fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE:1931189 3'	601155321F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3138893 5'	601155321F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3138893 5'	RC3-ST0197-130400-017-h02 ST0197 Homo saplens cDNA	at19e06.x1 Barstead acrta HPLRB8 Homo sapiens cDNA clone IMAGE:2355586 3' similar to gb:M22995 RAS-RELATED PROTEIN RAP-1A (HUMAN);	hi84a11.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2978972.3' similar to gb:M26326 KERATIN, TYPE I CYTOSKELETAL 18 (HUMAN):	Papio hamadryas alcohol dehydrogenase class I (ADH) gene, 5' region	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7.49, and partial cds, atternatively spliced	CM2-MT0100-310700-290-f05 MT0100 Homo saplens cDNA	601511714F1 NIH_MGC_71 Home saplens cDNA clone IMACE:3913106 5'	601511714F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3913106 5'	AU123240 NT2RM1 Homo sapiens cDNA clone NT2RM1000978 5'	801310479F1 NIH_MGC_44 Homo saplens cDNA clone IMAGE:3632083 5'	Homo sapiens aminoacylase 1 (ACY1), mRNA	Homo sapiens aminoacylase 1 (ACY1), mRNA	hk61b03.x1 NCI_CGAP_Lym12 Homo sapiens cDNA clone IMAGE:3001133 3' similar to gb:X64707 BREAST BASIC CONSERVED PROTEIN 1 (HUMAN);	hk81b03.x1 NCI_CGAP_Lym12 Homo sapiens cDNA clone IMAGE:3001133 3' similar to gb:X64707 BREAST BASIC CONSERVED PROTEIN 1 (HUMAN);
Top Hit	Source	NT.	EST_HUMAN	NT	EST_HUMAN	EST_HUMAN	FZ	NT L	Ę	Ę	Ę		EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST HUMAN	LN	LN	EST HUMAN	EST HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	LN LN	N	EST_HUMAN	EST_HUMAN
Top Hit Acession	Ö	5174648 NT	4W965166.1	AF073921.1	3E778475.1	3E778475.1	.09731.1	2.0E-47 D87675.1	J87675.1	AF071771.1	2.0E-47 11526136 NT		2.0E-47 R42423.1	1.0E-47 AI333429.1	1.0E-47 BE280477.1	1.0E-47 BE280477.1	1.0E-47 AW813906.1	1.0E-47 AI880886.1	1.0E-47 AW 684648.1	30115.1	9.0E-48 AF223391.1	9.0E-48 BF359947.1			9.0E-48 AU123240.1	9.0E-48 BE393813.1	4501900 NT	4501900 NT	8.0E-48 AW.768477.1	8.0E-48 AW768477.1
Most Similar	ш	2.0E-47	2.0E-47	2.0E-47	2.0E-47	2.0E-47	2.0E-47	2.0E-47	2.0E-47 D87675.1	2.0E-47 /	2.0E-47		2.0E-47	1.0E-47	1.0E-47	1.0E-47	1.0E-47	1.0E-47	1.0E-47	1.0E-47 L30115.1	9.0E-48	9.0E-48	9.0E-48	9.0E-48	9.0E-48	9.0E-48	8.0E-48	8.0E-48	8.0E-48	8.0E-48
TX Consistency	Signal	2.94	1.29	0.93	1.46	1.48	1.25	1.74	1.74	1.77	1.33		2.82	6.05	0.93	0.93	2.44	5.59	7.68	2.06	2.38	0.78	0.83	0.83	0.69	3.37	2.34	1.76	3.3	3.3
ORFSFO	ON O	28634		31312	31498	31499		33353	33354	34109						28954		32265		35741	26779				31755				28254	
Exon	SEQ ID	17187	17510	18578	18745	18745	24788	20447	20447	21191	21919		24994	14043	16493	1	17799	19449	l		14246		I _	L	18977	23509	13888		15783	
	SEQ ID NO:	4604	4935	5956	8130	6130	7886	7905	7905	8652	9410		11863	1451	3894	3894	5235	7109	8802	10258	1654	3612	5860	2880	6373	10995	1283	1294	3169	3169

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					6		
SEQ IO NO:	SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
4005	16603	29077	9.0	8.0E-48	4504116 NT		Homo sapiens glutamete receptor, ionotropic, kainate 1 (GRIK1) mRNA
516	L.	L	2.03	7.0E-48	-48 AB033035.1	LN LN	Homo sapiens mRNA for KIAA1209 protein, partial cds
517	L		20.88	7.0E-48	7.0E-48 AB033035.1	NT	Homo sapiens mRNA for KIAA1209 protein, partial cds
1544	L	26670	1.08	7.0E-48	6912719 NT		Homo sapiens tousled-like kinase 1 (TLK1), mRNA
1679	L		3.49	7.0E-48	5730038 NT		Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA
6672	19268	32072	21.95	7.0E-48	11416831 NT		Homo sapiens histidyl-tRNA synthetase (HARS), mRNA
3658	16261	L	1.19		6.0E-48 AI761111.1	EST_HUMAN	wi69h03.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2398613 3'
6208	L		96.0		6.0E-48 AB006955.1	LNT	Homo sapiens mRNA for AIE-75, complete cds
6881	L	32450	0.87	6.0E-48	11420995 NT		Homo sapiens BMX non-receptor tyrosine kinase (BMX), mRNA
9051	21588		2.17	6.0E-48	6.0E-48 AF026816.1	TN	Homo sapiens putative oncogene protein mRNA, partial cds
9460	21986	34940	1.72	6.0E-48	11427428 NT		Homo sapiens hypothetical protein FLJ11006 (FLJ11006), mRNA
							zq45b06.s1 Strategene hNT neuron (#937233) Homo sapiens cDNA clone IMAGE:632627 3' similar to
9096	22106	35069	3.5		6.0E-48 AA189080.1	T_HUMAN	contains Alu repetitive element;
2293	L	L			4827059 NT	NT	Homo sapiens xylulokinase (H. influenzae) homolog (XYLB) mRNA
2300		L	1.15		4827059 NT		Homo sapiens xylulokinase (H. Influenzae) homolog (XYLB) mRNA
3350			1.64	5.0E-48	4826891 NT		Homo sapiens phosphodiesterase 1A, calmodulin-dependent (PDE1A) mRNA
5418	<u>. </u>	30383	1.13			NT	Homo sapiens diacylglycerol kinase iota (DGKI) gene, exon 32
8511	21050	33972	6.84		5.0E-48 BE064410.1	EST_HUMAN	RC4-BT0311-141199-011-h06 BT0311 Homo sapiens cDNA
10836	L	36373	4.24			EST_HUMAN	tu47a02.x1 NCI_CGAP_Pr28 Homo sapiens cDNA clone IMAGE:2254154 3'
1428					AV690984.1		AV690984 GKC Homo sapiens cDNA clone GKCDRE12 5'
2019	1	L	9.63		TN 0718894	NT	Homo sapiens chromosome X open reading frame 6 (CXORF6) mRNA
2019		L		3.0E-48	4885170 NT	LN TN	Homo sapiens chromosome X open reading frame 6 (CXORF6) mRNA
3465	16072	28545	86.0	30.6	-48 AF172453.1	LN	Homo sapiens opiold growth factor receptor mRNA, complete cds
							hi14b12x1 NCI_CGAP_GU1 Home septens cDNA clone IMAGE:2972255 3' similar to SW:DCRB_HUMAN
3693	16294	28764	0.76	3.0E	-48 AW684531.1	EST_HUMAN	P56555 DOWN SYNDROME CRITICAL REGION PROTEIN B.;
4332	16919		0.67	3.0E-48	3.0E-48 AA009541.1	EST_HUMAN	zi04g03.r1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:426844 5
6053		31410			-48 BE084571.1	EST_HUMAN	MR4-BT0657-060400-201-e10 BT0657 Homo sapiens cDNA
7087	L			3.0E	-48 AF087913.1	NT	Human endogenous retrovirus HERV-P-T47D
	L						nv03f05.s.1 NO_CGAP_Pr22 Homo sapiens cDNA clone IMAGE:1219137 3' similar to contains PTR5.b1
8330	20871		3.02	3.0	-48 AA659930.1	EST_HUMAN	PTR5 repetitive element ;
10753	3 23277		6.32	30.6	-48 BF514170.1	EST_HUMAN	UI-H-BW 1-ani-a-10-0-UI.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3082267 3
5	1				2.0E-48 AA465007.1	EST_HUMAN	zx80c03.r1 Soares ovary tumor NbHOT Homo sepiens cDNA clone IMAGE:810052 5
49	12729		2.12		-48 AA631940.1	EST_HUMAN	fmfc7 Regional genomic DNA specific cDNA library Homo sapiens cDNA clone CR17-26

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ORF SEQ Expression (ID NO: Signal B	Value	TCBAP1D3842 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo saplens cDNa clone TCBAP3842	30107 1.8 2.0E-48 T03176.1 EST_HUMAN	30108 1.8 2.0E-48 T03176.1 EST HUMAN	32919 4.15 2.0E-48 AB040934.1 NT	32920 4.15 2.0E-48 AB040934.1 NT	32833 3 51 2 0F-48	33758 1 53 2 0 E 48 AVZA2461 1 ECT LI 144481	25142 4.4 2.0E-48 AA465007.1 EST HUMAN	25210 3.22 1.0E-48 7708534 NT	26038 5.3 1.0E-48 4502166 NT	26228 2.58 1.0E-48 7657430 NT	26229 2.58 1.0E-48 7657430 NT	28455 4.33 1.0E-48 5032032 NT	27103 19.18 1.0E-48 AL163302.2 NT	28622 0.81 1.0E-48 AL163246.2 NT	374 30296 1.37 1.0E-48 M10976.1 NT Human endogenous retroviral DNA (4-1), complete retroviral segment	31818 1.14 1.0E-48 AI889077.1 EST HUMAN	1.14 1.0E-48 AI889077 1 EST HUMAN SIMILARITY TO 17344 1	0.94 1.0E-48 Y18000.1 NT	32690 2.58 1.0E-48 4755137 NT	34225 0.52 1.0E-48 4758695 NT	34226 0.52 1.0E-48 4758695 NT	34618 0.84 1.0E-48 4502838 NT	34653 6 1.0E-48 AB033071.1 NT	34889 0.73 1.0E-48 BE168410.1 EST_HUMAN	34959	35754 3.54 1.0E-48 11429808 NT	35755 3.54 1.0E-48 11429808 NT	337 1.0E-48 W 26785.1 EST_HUMAN 1546 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA
ORF SEQ ID NO:		29663	30107	30108	32919	32920	32933	33758	25142	25210	26038	26228	26229	26455	27103	28622	30296	31818	31819		32690	34225	34226	34618	34653	34889	34959	35754	35755	
Exon SEQ ID	į					8 20048	65002			1	3 13520	13718			14548		17874	1 19034	19034		19831	5 21304		21675	1	- 1				24937
Probe SEQ ID		462	2032	5095	7528	7528	7539	8286	11828	9	906	1114	1114	1339	1962	3535	5312	6431	6431	6625	7303	876	8765	914	9192	9482	920	10272	10272	11789

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Probe SEQ ID NO: 2052 6204 6204 8236 9900	Exon SEQ ID NO: 14633 14633 16814 18814 20777 22387	ORF SEQ ID NO: 27204 31364 31368 3368 35372 36276	Expression Signal 0.96 3.44 3.44 1.23	Most Similar (Top) Hit BLAST E Value 8.0E.49 8.0E.49 8.0E.49 8.0E.49 8.0E.49 8.0E.49 8.0E.49 8.0E.49	AST E No. Ast E	Top Hit Database Source Source NT NT NT NT STAND	Top Hit Descriptor Mus musculus MysPDZ mRNA for myosin containing PDZ domain, complete cds Mus musculus T-box 20 (Tbx20), mRNA Mus musculus T-box 20 (Tbx20), mRNA Mus musculus T-box 20 (Tbx20), mRNA Human inositol 1.4.5 trisphosphate receptor type 1 mRNA, partial cds Homo sapiens gene for activin receptor type IB, complete cds 1938d12.x1 NCI_CGAP_Ut4 Homo sapiens cDNA clone IMAGE:2230871 3' similar to contains Alu repetitive element; contains element PTR5 repetitive element;
145	11		2	7.0E-49	1020	L Z	Homo sapiens proteasome (prosome, macropain) 26S subunit, ATPase, 4 (PSMC4) mRNA Homo sapiens proteasome (prosome, macropain) 26S subunit, ATPase, 4 (PSMC4) mRNA
145				7.0E-49		ZZZ	Trustro septens processome (procedure, mearopein) 26S subunit, ATP ese, 4 (PSMC4) mRNA Homo septens processome (procedure, mearopein) 26S subunit, ATP ese, 4 (PSMC4) mRNA Homo septens processome (procedure mearopein) 25S subunit, ATP ese, 4 (PSMC4) mRNA
418				7.0E-49 7.0E-49		z L	Homo sapiens protessome (prosome, macropain) 265 subunit, ATP ase, 4 (28MC4) mRNA Homo sapiens protessome (prosome, macropain) 265 subunit, ATP ase, 4 (28MC4) mRNA
418	13052	25543	3.49	7.0E-49	49 AL163284.2 NT	N	Homo saplens protessome (prosome, manapain) 205 subulit, A reso, 4 (1 500-57) illinora. Homo saplens chromosome 21 segment HS21C084
5851				7.0E-49	49 AI807191.1	EST_HUMAN	wf25h04.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2356663 3' similar to TR:054923 054923 RSEC15 ; DKE377697033 et 782 (supporter homo sapiens cDNA clone DKF20782033 3'
5861 5973	18288	30766	1.11	7.0E-49	49 AL120937.1 49 AI807191.1	EST_HUMAN	wt25h04.x1 Scares_NFL_T_GBC_S1 Homo saplens cDNA clone IMAGE:2356663 3' similar to TR:054923 O54923 RSEC15;
211	1 12872	25358	57.13	6.0E	49 AW731740.1	EST_HUMAN	ba55g05.x1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2800504.3' similar to gb:X17206.40S RIBOSOMAL PROTEIN S4 (HUMAN); gb:M20632 Mouse LLRep3 protein mRNA from a repetitive element, complete (MOUSE);
4193	3 16782	29231	0.59		6.0E-49 AL162091.1 6.0E-49 AU140742.1	EST_HUMAN	DKF2p761A138_s1 761 (synonym: namyz) Homo saptens curvix done UNF2p761A138_s1 761 (synonym: namyz) Homo saptens cDNA clone PLACE4000148 5
11159	Ш				6.0E-49 AW 452218.1	EST HUMAN	UI-H-BI3-alo-a-05-0-UI-s1 NCI_CGAP_Sub5 Homo sapiens cDNA clone IMAGE:3068048 3'
11514	23962	37031	3.9	8.0E	49 AA366556.1	EST_HUMAN	EST77525 Pancreas turnor III Homo sapiens cDNA 5' end
12166	$\mathbf{L}\mathbf{L}$			6.0E	49 AA707567.1 49 Ai 163210.2	EST HUMAN	2/29c08.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:451694 3 Homo sapiens chromosome 21 segment HS21C010
741	13361	25855	6.61	5.0E	49 AL163210.2	N	Homo sapiens chromosome 21 segment HS21C010
1830	0 14419	26968	3.16		5.0E-49 AA172121.1	EST_HUMAN	zp29c07.r1 Stratagene neurcepithelium (#937231) Homo sapiens cDNA clone IMAGE:610860 5' similar to TR:6233226 G233226 RTVL-H PROTEIN: contains LTR7.t3 LTR7 LTR7 repetitive element:
2778	1	Ш	4.95	Ш	5.0E-49 U17714.1	NT	Homo sapiens putative tumor suppressor ST 13 (ST 13) mRNA, complete cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
3311	15922	28398	6.09	5.0E-49	11436355 NT	FZ	Homo sapiens similar to ribosomal protein S27 (metallopanstimulin 1) (H. sapiens) (LOC63362), mRNA
551	13182	25659	26.48	30'4	-49 AW 189533.1	EST_HUMAN	x08b01.x1 NCI_CGAP_UM Homo sapiens cDNA clone IMAGE:2675593 3' similar to WP:B0350.2B CE06703;
7316	19843	32704	0.79	4.0E-49	11525737 NT	L	Homo sapiens UDP-N-acety-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 8 (GalNAc-T8) (GALNT8), mRNA
7316	19843	32705	0.79	4.0E-49	TN 7673511	LN	Homo sapiens UDP-N-acety-alpha-D-galactosamine:polypeptide N-acetylgalactosaminytransferase 8 (GalNac-T8) (GALNT8), mRNA
8798	21337	34263	0.46	4.0E-49	11425374 NT	Į.	Home sapiens copine III (CPNE3), mRNA
84.88	21337	34264	0.48	4.0E-49	11425374 NT	F	Home sapiens copine III (CPNE3), mRNA
12021	25055		4.9	4.0E	-49 AA210798.1	EST_HUMAN	Zr90f05.r1 NCI_CGAP_GCB1 Homo sepiens cDNA clone IMAGE:682977 5
12110	24371		3.14		4.0E-49 AF240786.1	LN	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
586	13216	25693	1.08		3.0E-49 X68968.1	NT L	H. sapiens mRNA for acetyl-CoA carboxylase
2874	15232		1 43		3 0F-49 AA016131 1	NAM! (II TAR	2931c05.r1 Soares retina N2b4HR Homo sapiens cDNA clone IMAGE:360584 5' similar to contains L1.t3 L1
5120	L	30130				L	Human tone IV collagen (COL4A6) gene axon 40
7448	L					EST HUMAN	EST25e12 WATM1 Homo septens cDNA clone 25e12
11181	23687	36734	1.98		3.0E-49 AA337561.1	EST_HUMAN	EST42572 Endometrial turnor Homo sapiens cDNA 5' end
689			1.57		2.0E-49 BE165980.1	EST_HUMAN	MR3-HT0487-150200-113-g01 HT0487 Homo saplens cDNA
3259			1.3		2.0E-49 N26446.1	EST_HUMAN	yz23d06.r1 Soares melanocyle 2NbHM Homo sapiens cDNA clone IMAGE.262571 5'
3627	16230	28706	0.67	2.0E-49	AF026564.1	LN	Homo sapiens RNA binding protein II (RBMII) gene, complete cds
							oz28402.x1 Soares, senescent_fibroblasts_NbHSF Homo sapiens cDNA clone IMAGE:1892403 3' similar to ob:M31470 RAS-LIKE PROTEIN TC10 (HUMAN) contains Alu repetitive element contains element MFR22
4918			0.67		2.0E-49 AI167357.1	EST_HUMAN	repetitive element;
4932			0.61	2.0E-49	2.0E-49 BF511846.1	EST_HUMAN	UI-H-BI4-aps-d-02-0-UI:s1 NCI_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3088538 3'
6834		32240			2.0E-49 AV717938.1	EST_HUMAN	AV717838 DCB Hamo sapiens cDNA clone DCBALB01 5'
8043			1.71	2.0E-49	2.0E-49 M86033.1	EST_HUMAN	EST02558 Fetal brain, Stratagene (cat#936206) Homo sapiens cDNA clone HFBCY50
12121			1.81	2.0E-49	2.0E-49 AF163864.1	LN	Homo saplens SNCA isoform (SNCA) gene, complete cds, alternatively spliced
932			9.12		1.0E-49 BF035327.1	EST_HUMAN	601458531F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3862086 5:
1600			-		4557887 NT	NT	Homo sapiens keratin 18 (KRT18) mRNA
1837	l				1.0E-49 BE255216.1	1 1	601115769F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3356273 5'
5562	18193	30640	8.31	1.0E-49	1.0E-49 BF131007.1	EST_HUMAN	601820053F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:4052052 5'

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Table 4
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					0	original complete com	
Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
6228	18837	31610	0.95	1.05-49	49 H18291.1	EST_HUMAN	ул48h04.r1 Soares adult brain N2b5HB55Y Homo sapiens cDNA clone IMAGE:171703 5' similar to SP:GBG1_HUMAN Q08447 GUANINE NUCLEOTIDE-BINDING PROTEIN G(T) GAMMA-1 SUBUNIT :
6234				1.0E-49		EST_HUMAN	EST378713 MAGE resequences, MAGH Homo sapiens cDNA
7275	L			1.0E-49		EST_HUMAN	801290330F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3620863 5'
7275	19803	32662	3.31	1.0E-49	49 BE398110.1	EST_HUMAN	601290330F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3620863 5
7342		32733	2.3	1.0E-49	49 N25884.1	EST_HUMAN	yw78g12.s1 Soares_placenta_8tc9weaks_2nbHP8tc9W Homo sapiens cDNA clone IMAGE:258406 3 similar to gb:X65873 KINESIN HEAVY CHAIN (HUMAN);
7342				1.0E-49	-49 N25884.1	EST_HUMAN	yw78g12.s1 Soeres_placenta_8tc9weeks_2nbHP8tc9W Homo sapiens cDNA clone IMAGE:258406 3' similar to gb:X6s873 KINESIN HEAVY CHAIN (HUMAN);
8023	L			1.0E-49	11321580 NT	LN	Homo sapiens succinate-CoA ligase, GDP-forming, alpha subunit (SUCLG1), mRNA
8023			1.23	1.0E-49	11321580 NT	LN	Homo sapiens succinate CoA ligase, GDP-forming, alpha subunit (SUCLG1), mRNA
8609	L	Ì		1.0E-49	9894184	ΝΤ	Homo sapiens RNA binding motif protein 7 (LOC\$1120), mRNA
8923	L	34378	1.26	1.0E-49		EST_HUMAN	601300992F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3635398 5
10033			1.26	1.0E-49		EST_HUMAN	DKFZp434D2423_r1 434 (synonym: htes3) Homo sepiens cDNA clone DKFZp434D2423 5
10927		36466	2.28	1.0E-49	49 AV751477.1	EST_HUMAN	AV751477 NPD Homo sapiens cDNA clone NPDAWE04 5
11190	┖			1.0E-49	11427368 NT	L	Homo sapiens brefeldin A-inhibited guanine nucleotide-exchange protein 1 (BIG1), mKNA
11853	24081		1.39	1.0E-49	BE159343.1	EST_HUMAN	MRO-HT0407-010200-006-102 HT0407 Homo sapiens cDNA
12015	L		2.46		1.0E-49 11418322 NT	Ę	Homo sapiens cadherin EGF LAG seven-pass G-type receptor 1 (CELSR1), mKNA
8536	25117		0.88	9.0E-50	9.0E-50 BE295758.1	EST_HUMAN	601176250F1 NIH_MGC_17 Homo sapiens CDNA clone IMAGE:3531588 5
181	12843	25327	2.91	8.0E-50	AL163202.2	۲	Homo sapiens chromosome 21 segment HS21C002
748	13368	25862	1.7	8.0E-50	8.0E-50 X95097.2	LN L	Homo sapiens mRNA for VIP receptor 2
748	13368		1.7	8.0E-50	8.0E-50 X95097.2	NT	Homo sapiens mRNA for VIP receptor 2
1070	L		6.61	8.0E-50	AF00057	NT	Homo sapiens homogentisate 1,2-dioxygenase gene, complete cds
1800	14390	26935	2.81	8.0E-50		LN (Homo sapiens actinin, alpha 1 (ACIN1) mKNA
2522	15086	27658	1	8.0E-50		NT.	Homo saplens p47 (LOC51674), mRNA
2522	15086	27659	-	8.0E-50	7706394 NT	LN.	Homo sapiens p47 (LOC51674), mRNA
2723			0.98	8.0E-50	4828658 NT	INT	Homo sapiens capping protein (actin filament) muscle Z-line, beta (CAPZB), mKNA
4182	<u> </u>			8.0E	50 AL163281.2	۱	Homo sapiens chromosome 21 segment HS210081
2	<u></u>		76.0	7.0E	50 BE089591.1	EST_HUMAN	QV0-BT0703-280400-211-e08 BT0703 Homo sapiens cDNA
9880	19614		0.94	7.0E-	-50 BF091922.1	EST_HUMAN	RC6-TN0073-150900-011-A12 TN0073 Homo sapiens cDNA
88	L		0.94	7.0E	-50 BF091922.1	EST_HUMAN	RC6-TN0073-150900-011-A12 TN0073 Homo sapiens cDNA
7346	19872	32738	1.25	7.0E	-50 AA627822.1	EST_HUMAN	nq59e12.s1 NCI_CGAP_Cc9 Homo sapiens cDNA clone IMAGE:1148206 3' similar to gb:X69391 60S RIBOSOMAL PROTEIN L6 (HUMAN);
0000	ı			15	FOI A 1872137 1	EST HUMAN	wm55g11.x1 NCI CGAP Utz Homo sapiens cDNA clone IMAGE:2439908 3*
10000	1				7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		

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Top Hit Descriptor	Mus musculus mRNA for high-sulfur keratin protein, partial cds	Homo sapiens TFF gene cluster for trefal factor, complete cds	Homo sapiens TFF gene cluster for trefail factor, complete cds	Human HALPHA44 gene for alpha-tubulin, exons 1-3	Human HALPHA44 gene for alpha-tubulin, exons 1-3	Mus musculus keratin complex 2, gene 6g (Krt2-6g), mRNA	Mus musculus keratin complex 2, gene 6g (Krt2-6g), mRNA	Macaca mulatta cyclophilin A mRNA, complete cds	Homo sapiens chromosome 21 segment HS21C009	Homo sapiens Xq pseudoautosomal region; segment 1/2	Homo sapiens RGH2 gene, retrovirus-lika etement	hd44602.x1 Sogres_NFL_T_GBC_S1 Hamo sapiens cDNA clone IMAGE::2912378 3' similar to TR:095636 095636 CAMP-REGULATED GUANINE NUCLEOTIDE EXCHANGE FACTOR II.;	ny67h03.s1 NCI_CGAP_CCB1 Homo sapiens cDNA clone IMAGE:1283381 3'	ab23g04.x5 Stratagene lung (#937210) Homo sapiens cDNA clone IMA GE:841686 3' similar to ewidean Hillman Ondrop PROSTATE.SPECIFIC MEMBRANE ANTIGEN	2451-00 rt Scares pregnant uterus NbHPU Homo sapiens cDNA clone IMAGE:486352 5	20010001 Control Contr	eb23g04.x5 Strategene lung (#937210) Homo septens CINA clone INA CE:041090 3 similar to SW:PSM_HUMAN Q04609 PROSTATE_SPECIFIC MEMBRANE ANTIGEN;	ab23g04.x5 Stratagene lung (#997210) Homo sapiens cDNA clone IMAGE:841686 3' similar to SW:PSM_HUMAN Q04609 PROSTATE_SPECIFIC MEMBRANE ANTIGEN ;	Homo sapiens glycine amidinotransferase (L-arginine:glycine amidinotransferase) (GATM) mRNA	Homo sapiens glycine amidinotransferase (L-arginine:glycine amidinotransferase) (GATM) mRNA	пр 98- 69.s1 NCI_CGAP_Lu1 Homo sapiens cDNA clone IMAGE:1142440 3' similar to gb:X12671_ma1 HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN A1 (HUMAN);	Homo sapiens PAK2 mRNA, complete cds	Homo sapiens PDZ-73 protein (PDZ-73/NY-CO-38), mRNA	AU138590 PLACE1 Homo sapiens cDNA clone PLACE1008887 5'	xn34a03.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2695564 3' similar to TR:Q9Z340 Q9Z340 ATYPICAL PKC SPECIFIC BINDING PROTEIN.;	QV4-NT0028-200400-180-d05 NT0028 Homo sapiens cDNA	xn34e03.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2695564 3' similar to TR:Q92340 Q92340 ATYPICAL PKC SPECIFIC BINDING PROTEIN :	DKFZp434B2229_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434B2229 5
Top Hit Database Source		LΝ	LN	LN				NT	NT	NT	N	EST HUMAN	Г		EST TOMAN	NICHOLINE I CO	EST_HUMAN	EST_HUMAN	Z	NT	EST_HUMAN	NT	١	EST_HUMAN	EST HUMAN	EST_HUMAN	EST_HUMAN	EST HUMAN
Top Hit Acession No.	50 D86424.1	2.1	2.1			9910293 NT	9910293 NT	50 AF023861.1	50 AL163209.2	-50 AJ271735.1	-50 D11078.1	.51 AW511225.1	51 AA744837.1		-51 AI/91154.1	-51 AAU43/36.1	-51 AI791154.1	-51 AI791154.1	4503932 NT	4503932 NT	8.0E-51 AA610842.1	-51 AF092132.1	11439587 NT	-51 AU138590.1	-51 AW274720.1	.51 AW 889219.1	7.0E-51 AW 274720.1	-51 AL079628.1
Most Similar (Top) Hit BLAST E Value	2.0E-50 C	2.0E-50 A	2.0E-50 A	2.0E-50 X06956.1	2.0E-50 X	2.0E-50	2.0E-50	2.0E-50	1.0E-50	1.0E-50	1.05-50	9.05-51	9.0E-51		9.0E-51	9.0E-31	9.0E-51	9.0E-51	8.0E-51	8.0E-51	8.0E-51	8.0E-51	8.0E-51	8.0E-51		7.0E-51	7.0E-51	7.0E-51
Expression Signal	9.0	1.24	1.24	9.32	9.32	2.89	2.89	2.09	1.58	6.87	0.77	88	69 0		0.7	1.10	0.52	0.52	2.81	2.81	13.1	8.	2.06	66.0			0.76	
ORF SEQ ID NO:	28375	33716	33717	33854					25606		35583					34725	34875			29562		L	33047			28408		29286
Exon SEQ ID NO:	16934	20799	_	L	L	L		L	13120	L					- 1	21774	21929		1.	L			L.	L		┸		1 1
Probe SEO ID NO:	4347	8228	8258	8383	8393	8199	9626	11512	487	2403	10095	97.79	0100	3	8606	9248	842	0430	4532	4532	4687	5319	7848	8385	3054	3321	3408	4247

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ביינוני באניון ויטיסט באף פאסטט זון פונט בויעם	Top Hit Descriptor	DKFZp434B2229_r1 434 (synonym: htes3) Homo saplens cDNA clone DKFZp434B2229 5'	UI:H-BW0-aip-b-05-0-UI:s1 NCI_CGAP_Sub6 Homo sapiens cDNA clone IMAGE:2729817 3'	Homo sapiens HSPC331 mRNA, partial cds	Homo sapiens putative DNA binding protein (M98), mRNA	Homo sapiens KIAA0929 protein Msx2 interacting nuclear target (MINT) homolog (KIAA0929), mRNA	Homo sapiens KIAA0929 protein Msx2 interacting nuclear target (MINT) homolog (KIAA0928), mRNA	Homo sapiens solute carrier family 2 (facilitated glucose transporter), member 9 (SLC2A9), mRNA	Homo sapiens solute carrier family 2 (facilitated glucose transporter), member 9 (SLC2A9), mRNA	Human haptoglobin related (Hpr) gene exon 3	Homo sapiens mitogen-activated protein kinase kinase 1 (MKK4) gene, exon 4	Homo sapiens mitogen-activated protein kinase kinase 1 (MKK4) gene, exon 4	Homo sapiens ribosomal protein S6 kinase, 70kD, polypeptide 1 (RPS6KB1) mRNA	Homo sapiens non-kinase Cdc42 effector protein SPEC2 (LOC56990), mRNA	Homo sapiens cerebral cell adhesion molecule (LOC51148), mRNA	Homo sapiens hypothetical protein FLJ11042 (FLJ11042), mRNA	Homo sapiens hypothetical protein FLJ11042 (FLJ11042), mRNA	Homo sapiens B9 protein (B9), mRNA	Human ankyrin (ANK1) gene, exon 2	Homo sapiens interleukin 17 receptor (IL17R), mRNA	Homo sapiens protein phosphatase 2, regulatory subunit B (B56), alpha isoform (PPP2R5A) mRNA	Homo sapiens protein phosphatase 2, regulatory subunit B (B56), alpha isoform (PPP2R5A) mRNA	Homo sapiens chromosome 21 segment HS21 C003	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA	Novel human gene mapping to chamosome X	Homo saplens 26S proteasome-associated pad1 homolog (POH1) mRNA	Homo sapiens mRNA for nucleoporin 155	Human Ku (p70/p80) subunit mRNA, complete cds	Human Ku (p70/p80) subunit mRNA, complete cds	Homo sapiens mRNA for KIAA1411 protein, partial cds	7a41a02.x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:3221258 3'
אין אין אין אין אין אין	Top Hit Database Source	EST_HUMAN DKFZp43	EST_HUMAN UI-H-BW	П	Homo sa	Homo sa	Homo sa	Homo sal	Homo sal	Human	Homo sa	Homo sa	Homo say	Homo sat	Homo say	Homo sa	Homo say	Homo sa	Human a	Homo say	Homo say	Homo sa	Homo say	Homo say	Novel hur	Homo sa	Homo sal	Human K	Human K		EST_HUMAN 7841802
2	,	EST	EST	노	6678763 NT	7657266 NT	76572 8 6 NT	9910553 NT	9910553 NT	호	Ā	Z	4506736 NT	51 NT	65 NT	25 NT	25 NT	7661535 NT	Ż	89 NT	5453949 NT	5453949 NT	Ż	4507500 NT	Þ	80 NT	눌	Ł	Z	N	EST_F
	Top Hit Acession No.	7.0E-51 AL079628.1	7.0E-51 AW 295603.1	7.0E-51 AF161449.1	66787	76572				X01788.1	6.0E-51 AF070083.1	E-51 AF070083.1		11416751 NT	11429665 NT	11428525 NT	11428525 NT	76615	6.0E-51 U50093.1	11526289 NT	54539		5.0E-51 AL163203.2	45075	5.0E-51 AL133204.1	5031980 NT	5.0E-51 AJ007558.1	5.0E-51 M30938.1	5.0E-51 M30938.1	5.0E-51 AB037832,1	5.0E-51 BE501320.1
	Most Similar (Top) Hit BLAST E Value	7.0E-51	7.0E-51	7.0E-51	6.0E-51	6.0E-51	6.0E-51	6.0E-51	6.0E-51	6.0E-51	6.0E-51	6.0E-51	6.0E-51	6.0E-51	6.0E-51	6.0E-51	6.0E-51	6.0E-51	6.0E-51	6.0E-51	6.0E-51	6.0E-51	5.0E-51	5.0E-51	5.0E-51	5.0E-51	5.0E-51	5.0E-51	5.0E-51	5.0E-51	5.0E-51
	Expression Signal	2.14	1.69	1.65	17.64	5.19	17.1	1.00	1.09	57.08	11.76	11.76	1.05	0.71	2.22	0.68	0.68	1.79	1.35	1.83	1.58	1.58	6.74	1.38	1.01	0.99	60.6	1.21	1.21	1.66	2.02
	ORF SEQ ID NO:	29287	29469	37053	26699	27169	28605	29426	29427	31514	31527	31528	32424	32373	30454	34530	34531	35064	35151	36684	36919	36920	25948	25962	26153	26777	27759	29088	29089	30214	38621
	Exon SEQ ID NO:	16835	17029	23982	14168	14604	16125	16982	16982	18756	18765	18765	19592	19549	18064	21601	21601	22101	22176	23644	23854	23854	13441	13452	15431	14243	15191	16615	16615	17795	23581
	Probe SEQ ID NO:	4247	4443	11534	1575	2022	3520	4397	4397	6142	6152	6152	8858	6972	7044	906	9064	980	2296	11136	11403	11403	824	836	1028	1651	2629	4017	4017	5231	11069

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					,		
Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
9537	22037			2.0E	-51 AB007926.1	N	Homo sapiens mRNA for KIAA0457 protein, partial cds
10329	22823	35819	1.73	2.0E	-51 AV682474.1	EST HUMAN	AV682474 GKB Hamo saplens cDNA clone GKBAGF05 5
10368	22862	35855	1.03	2.0E-51	2.0E-51 AA378559.1	EST_HUMAN	EST91296 Synovial sarcoma Homo sapiens cDNA 5' end
11207	18259	30730	11.47	2.0E-	51 AI732851.1	EST_HUMAN	ob34f09x5 NCI_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1328609 3' similar to SW:NME1_MOUSE P35436 GLUTAMATE [NMDA] RECEPTOR SUBUNIT EPSILON 1 PRECURSOR:
11207	18259	30731	11.47	2.0E-	51 AI732851.1	EST HUMAN	0634f09.x5 NCI_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1325609 3' similar to SW:NME1_MOUSE P36436 GLUTAMATE [NMDA] RECEPTOR SUBUNIT EPSILON 1 PRECURSOR
12343	24524	30924	2.6	2.0E	11419159 NT	LN	Homo sapiens myeloid//ymphoid or mixed-lineage leukemia (trithorax (Drosophila) homolog); translocated to, 4 (MLLT4), mRNA
119	12790	25272	27.93	1.0E-51	4503528 NT	Z	Homo sapiens eukaryotic translation initiation factor 4A, isoform 1 (EIF4A1) mRNA
1541	14133		28.47	1.0E-51	-51 AV742248.1	EST_HUMAN	AV742248 CB Homo sapiens cDNA done CBFBCC12 5'
4498	17082	29531	1	1.0E-51	4759071 NT	Z	Homo sapiens small inducible cytokine subfamily A (Cys-Cys), member 15 (SCYA15) mRNA
4498	17082	29532	1	1.0E-51	4759071 NT	F	Homo saplens small inducible cytokine subfamily A (Cys-Cys), member 15 (SCYA15) mRNA
5588			2.68	1.0E-51	-51 T18862.1	EST_HUMAN	b12056i Testis 1 Homo sapiens cDNA clone b12056
· 7645	20157	33044	28.0	1.0E	51 AI572532.1	EST_HUMAN	te39g02.x1 Sogres_NhHMPu_S1 Homo sapiens cDNA clone IMAGE:2089106 3'
7844	20388	33289		1.0E-51	51 BF434359.1	EST HUMAN	7098b02.x1 NCI_CGAP_Ov18 Homo sapiens cDNA clone IMAGE:3644091 3' similar to TR:P87892 P87892. PROTEASE:
11613	25129		3.01	1.0E-51		EST_HUMAN	AV760590 MDS Homo sapiens cDNA clone MDSCBB02 5
10568	23104	36118	1.7.1	9.0E-52	52 R91638.1	EST_HUMAN	yq10h04.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:196367 5' similar to SP:YGAF_ECOLI P37339 HYPOTHETICAL PROTEIN IN GABP 3'REGION
10568	23104	36119	17.1	9.0E-52	9.0E-52 R91638.1	EST_HUMAN	vq10h04.r1 Soeres febal Iiver spleen 1NFLS Homo sapiens cDNA clone IMAGE:196567 5' similar to SP:YGAF_ECOLI P37339 HYPOTHETICAL PROTEIN IN GABP 3'REGION ;
12105	24367		6.53	9.0E-52	Ξ	EST_HUMAN	z95807.s1 Soeres_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:448500 3' similar to contains THR.t3 THR repetitive element;
183	12826	25313	8	8.0E-52		EST HUMAN	rw21g02.s1 NCI_CGAP_GCB0 Homo sapiens cDNA clone IMAGE:1241138 3' similar to contains THR.t3 THR repetitive element:
1543	14135	26669	1.32	8.0E-52	:-52 X84900.1	NT	H. sapiens mRNA for laminin-5, alpha3b chain
1694	14286	26821	2.12	8.0E-52	11968028 NT	NT	Homo sapiens hypothetical protein FLJ13556 similar to N-myc downstream regulated 3 (FLJ13556), mRNA
1694	14286	26822	2.12	8.0E-52	11968028 NT	NT	Homo sepiens hypothetical protein FLJ13556 similar to N-myc downstream regulated 3 (FLJ13556), mRNA
4066	14286	26821	6.96	8.0E-52	11968028 NT		Homo sapiens hypothetical protein FLJ13556 similar to N-myc downstream regulated 3 (FLJ13556), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
4066	14286	26822	96.9	8.0E-52	11968028 NT	١	Homo sapiens hypothetical protein FLJ13556 similar to N-myc downstream regulated 3 (FLJ13556), mRNA
7526			1.8			L	Homo sapiens transforming growth factor, beta-induced, 68kD (TGFBI), mRNA
7528	L		1.8	8.0E	11416585 NT	INT	Homo saplens transforming growth factor, beta-induced, 68kD (TGFBI), mKNA
8943			1.39	7.0E-	W56471.1	EST_HUMAN	zc59a06.r1 Soares_parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:326578 5' similer to contains Alu repetitive element:
12%	L			8.0E	-	EST HUMAN	QV3-BT0537-271299-049-d07 BT0537 Homo sapiens cDNA
							Homo sapiens S164 gene, partial cds, PS1 and hypothetical protein genes, complete cds, and S171 gene,
1732				90.9	-52 AF109907.1	LN	partial cds
2065	18524	31249	2.12	8.0E	-52 AI208794.1	EST HUMAN	484404.X1 Soarias Testis Than to septem solution country of the septem solution country of th
				000	00000	HOU THE	tz46h04.y1 NCI_CGAP_Bm52 Homo sepiens cDNA clone IMAGE:2291671 5: similar to SW:PGBM_MOUSE Q05793 BASEMENT MEMBRANE-SPECIFIC HEPARAN SULFATE PROTEOG! YCAN CORF PROTEIN PRECURSOR:
11086	1			0.0	-32 DEU40172.1	TOWN THE	H sepiens flow-sorted chromosome 6 Hindlll freqment, SC6pA18H7
4535	17119	28200	1.77	0.0	-52 AF257318.1	L L	Homo saplens SH3-containing protein SH3GLB1 mRNA, complete cds
7011				4 OF	4758843 NT	LN .	Homo saplens nucleoporin 155kD (NUP155) mRNA
2007		1				NT	Homo sapiens T-cell lymphoma Invasion and metastasis 1 (TIAM1) mRNA
4849	丄			4.0	AI766814	EST_HUMAN	wi89b02.x1 NCI_CGAP_Kid12 Hamo sapiens cDNA clone IMAGE:2400459 3'
5490	L	L	1.2	4.0	4506132 NT	ZINT	Homo sapiens phosphoribosy pyrophosphate synthetase-associated protein 2 (PRPSAP2) mKNA
5480			1.2	4.05	4506132 NT	2 NT	Homo sapiens phosphoribosyl pyrophosphate synthetase-associated protein 2 (PRPSAP2) mKNA
7982	20524		1.63	4.0	BE6220	EST_HUMAN	801440687F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3813838 3
8471	21011	L	5.51	4.05		SINT	Homo sapiens hydroxysteroid (17-beta) dehydrogenase 4 (HSU1/B4), mrkina
11933	上	L		4.0E	11418177 NT	7 NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
12458	24589		13.96		-52 AB002059.1	Z	Homo saplens DNA for Human PZXM, complete cas
12601	24687		1.57		4.0E-52 AB011399.1	Ż	Home sapiens gene for AF-4, complete cas
4166	16757		12.28		11437042 NT	2 NT	Homo sapiens hypothetical protein FLJ10675 (FLJ10575), mRNA
588	13218	25694	4.18		2.0E-52 M10976.1	NT	Human endogenous retroviral DNA (4-1), complete retroviral segment
88		3 . 25695	4.18		2.0E-52 M10976.1	NT	Human endogenous retroviral DNA (4-1), complete retroviral segment
1793			2.64	2.05	52 AB007899.1	LN	Homo sapiens KIAA0439 mRNA, partial cds
	I.						bb68b07.y1 NIH_MGC_9 Home eapiens cDNA clone IMAGE:3030421 5: similar to gp:X16483 M.musculus popsited for the force models (MOLISE)
2544	_ 1	3 27681			2.0E-52 BE2075/5.1	ESI HUMAN	IIIIVAN IG ELI ALIO IIIVAN PUNINI (IIIVAN PUNINI IIIVAN PUNINI IIVAN PUNINI
2764					2.0E-52 BF677892.1	EST_HUMAN	602084710F1 NIT MCC_05 Trains septents count invasions trains to
5113					2.0E-52 AL137188.3	L	Nover numan gene mapping to chromosome cv. similar to mentione unitable to a
5881	18503	31229	3.32		AW848041.1	EST HOMAN	C3-C10214-Z31Z88-C32-E1Z C10Z14 T0T10 Sapiens CONA

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					, 		
Probe SEQ ID NQ:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
9299			1.86	2.0E-52	11141888 NT	F	Hano sapiens interleukin 21 receptor (IL21R), mRNA
6814			68.0	2.0E-52	-52 AB029004.1	N	Homo sapiens mRNA for KIAA1081 protein, partial cds
7022		32381	0.68	2.0E-52	-52 AI792146.1	EST_HUMAN	0s45d12.y5 NCI_CGAP_Br2 Hamo sapiens cDNA clone IMAGE:1808311 5'
8587	21126		10.89	2.0E-52	-52 AF147880.1	N	Macaca mulatta beta-tubulin mRNA, complete cds
8866	21405	34329	0.82	2.0E-52	-52 AA778795.1	EST_HUMAN	2/45g05.s1 Soares_feta_liver_spleen_1NFLS_S1 Home sapiens cDNA clone IMAGE:453272 3'
9400	21823		1.25	2.0E-52	4758789 NT	Ę	Homo sapiens NADH dehydrogenase (ubiquinone) Fe-S protein 5 (15kD) (NADH-coenzyme Q reductase) (NDUFS5) mRNA
10024	22519			2.0E-52	5730038 NT	Z,	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA
10024			5.62	2.0E-52	5730038 NT	N	Homo sapiens SET domain and mariner transposase fusion gene (SETWAR) mRNA
11083	23595	36630	6.08	2.0E-52	-52 AI831462.1	EST HUMAN	w/49c04.x1 NCI_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2406150 3' similar to contains THR.b2 THR repetitive element:
							w/49c04.x1 NCI_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2406150 3' similar to contains THR.b2
11083		36631	6.08	2.0E-52		EST_HUMAN	THR repetitive element;
11094		36646	3.85	2.0E-52	2.0E-52 AV715377.1	EST_HUMAN	AV715377 DCB Homo sapiens cDNA clone DCBAIE03 5'
11231	23762		. 1.87	2.0E-52	-52 W 70260.1	EST_HUMAN	2d49g12.r1 Soares_fetal_heart_NbHH19W Homo sapiens cDNA clone IMAGE:344038 5
11484	23933		3.4	2.0E-52	11417990	L	Homo sapiens LIM domain kinase 2 (LIMK2), mRNA
11741	25099	30500	14.03	2.0E-52	52 AW 236297.1	EST HUMAN	xn72e07.x1 NCI_CGAP_CML1 Homo sapiens cDNA clone IMAGE:2700036 3' similar to contains Alu repetitive element;contains element LTR2 repetitive element:
12154	24396		383	2 0F-52	2 0F-52 AIBOB985 1	H TAM	wf87d05.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2360649 3' similar to TR:Q16859 016859 CARBOXYI ESTERASE
929				1.0E-52		EST HUMAN	zu75h12.s1 Soares testis NHT Homo sapiens cDNA clone IMAGE:743879 3'
1414	14007	26535	-	1.0E-52	34026	LN	Homo sapiens glutamate-ammonia ligase (glutamine synthase) (GLUL) mRNA
2573	15136		1.75	1.0E-52	4502238 NT	NT	Homo sapiens anysulfatase D (ARSD), transcript variant 1, mRNA
-			,				pol=reverse transcriptase homolog (retroviral element) (human, endogenous retroviral element RTVL-Hp1,
3085	15/10	18182	1.65	1.05-52		z	Genamic, 860 nt
0000		20000	5 3	20-30.		Z	Turnan F-glycoprotein (MDLX) gene, exon 4
1700	13161	12818	2.18	1.0E-52		Į.	Human PMSz related (nPMSRZ) gene, complete cds
8	-1	32845	2.21	1.05-52		N	Human aldolase C gene for fuctose-1,6-bisphosphate aldolase
8 5 5	- 1		1.24	1.0E-52		L	Hamo sapiens chramosame 21 segment HS21C027
9116	J	34593	0.61	1.0E-52		Ŋ	Rattus norvegicus putative four repeat ion channel mRNA, complete cds
10469			1,13	1.0E-52		EST_HUMAN	df08g05.γ1 Morton Fetal Cochlea Homo sapiens cDNA clone IMAGE:2483145 5'
10479	- 1		0.78	1.0E-52	2.2	L/N	Homo sapiens chromosome 21 segment HS21C002
10646	ı	36191	10.04	1.0E-52	U48296.1	NT	Homo sapiens protein tyrosine phosphatase PTPCAAX1 (hPTPCAAX1) mRNA, complete cds
10716	23244		2.37	1.0E-52	11426321 NT	LN	Homo sapiens proteasome (prosome, macropain) subunit, beta type, 2 (PSMB2), mRNA

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í				Most Similar			
SEQ ID NO:	SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	(Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
2752	15307	27871	6.0	2.0E-53	N 5167574	LN	Homo sapiens core-binding factor, runt domain, alpha subunit 2; translocated to, 1; cyclin D-related (CBFA2T1) mRNA
2752		27872	6.0	2.0E-53	N 51815 NT	۲	Homo saplens core-binding factor, runt domain, alpha subunit 2; translocated to, 1; cyclin D-related (CBFA2T1) mRNA
3255			0.65	2.0E-53	TN 58887 NT	LN	Homo sapiens leucine aminopeptidase (LOC51056), mRNA
3282				2.0E-53		NT	Homo sapiens dihydropyridine receptor alpha 2 subunit (CACNA2D1) gene, exon 6
4133			2.15	2.0E-53		NT	Human Krueppel-related DNA-binding protein (TF34) gene, partial cds
5619	H			2.0E-53	BF334740.1	EST_HUMAN	PM1-CT0396-170800-001-503 CT0396 Homo sapiens cDNA
5619	18248	30700		2.0E-53	2.0E-53 BF334740.1	EST_HUMAN	PM1-CT0396-170800-001-503 CT0396 Homo sapiens cDNA
7812		33263	0.84	2.0E-53		EST_HUMAN	EST387707 MAGE resequences, MAGN Homo sapiens cDNA
7949	20491		0.83	2.0E-53	2.0E-53 AA095652.1	EST_HUMAN	15429.seq.F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA 5'
9329	21843		17.91	2.0E-53	2.0E-53 AW245676.1	EST_HUMAN	2822665.5prime NIH_MGC_7 Homo sepiens cDNA clone IMAGE:2822665 5'
1495	14087	26627	1.88	1.0E-53		Z	Homo sapiens Xq pseudoautosomal region; segment 2/2
	1						Hamo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes,
3456			1.4	1.0E-53	E-53 AB026898.1	NT	complete cds)
4220			0.67	1.0E-53		EST_HUMAN	AV714177 DCB Homo sapiens cDNA clone DCBAWF09 5'
5099			1.08	1.0E-53		EST_HUMAN	601176725F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531919 5'
6794	Ш		1.34	1.0E-53	E-53 BF364201.1	EST_HUMAN	CM4-NN1029-150800-543-602 NN1029 Hamo sapiens cDNA
7295			0.93	1.0E-53	1.0E-53 BE012071.1	EST_HUMAN	RC5-BN1058-270400-031-D01 BN1058 Homo sapiens cDNA
7876			0.5	1.0E-53	E-53 AA249072.1	EST_HUMAN	II9571.seq.F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA 5'
9018	21555	34483	15.04	1.0E-53		TN	H. sapiens mRNA for hnRNPcore protein A1
3290				9.0E-54	118	TN	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
5205			5.34	9.0E-54	9.0E-54 4506786 NT	L	Homo sapiens IQ motif containing GTPase activating protein 1 (IQGAP1) mRNA
221			3.54	8.0E-54		EST_HUMAN	601272863F1 NIH_MGC_20 Homo sepiens cDNA clone IMAGE:3614031 5'
1875	14461	27018	1.62	8.0E-54	4504610 NT	LN	Homo sapiens insulin-like growth factor 2 receptor (IGF2R) mRNA
4841		29871	9.0	8.0E-54	4507848 NT	NT	Homo sapiens ublquitin specific protease 13 (isopeptidase T-3) (USP13) mRNA
4841	Ц		9.0	8.0E-54		NT	Homo sapiens ubiquitin specific protease 13 (isopeptidase T-3) (USP13) mRNA
6092	18708	31456	20.41	8.0E-54	LN 0025009	NT	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 8 (ABCA8), mRNA
							a/79c12.s1 Soares_testis_NHT Homo sapiens cDNA clone 1377046 3' similar to contains MER30.t3 MER30
407			1.55	ı	7.0E-54 AA812537.1	EST HUMAN	repetitive element;
1870	14456	27013				L	Homo sapiens mRNA for monocyte chemotectic protein-2
2246		27395		7.0E-54	7.0E-54 N27177.1	EST_HUMAN	yw68d12.s1 Soares_placenta_8to9weeks_2NbHP8tc9W Homo sapiens cDNA clone IMAGE:257399 3' similar to contains LTR7.b3 LTR7 repetitive element;
4694			23.4	7.0E-54	1.2	FZ	Homo saplens chromosome 21 segment HS21C003

PCT/US01/00669

WO 01/57277

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		_	_	τ-			_	_		_	_	_	_		_	_	_	_	_	_		-	~~	т-	_		_	-	,	_
	Top Hit Descriptor	Homo sapiens killer cell lectin-like receptor subfamily G, member 1 (KLRG1), mRNA	Homo sapiens nuclear antigen Sp100 (SP100) mRNA	nt78a09.s1 NCI_CGAP_Pr3 Homo sapiens cDNA clone IMAGE:1204600 similar to contains element L1	repetitive element :	au92g03.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2783784 5' similar to SW:CUL1 HUMAN Q13616 CULLIN HOMOLOG 1	Homo saplens chromosome 21 segment HS21C010	wy60b12.x1 Soeres_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:2552927 3' similar to TR:082084 062084 PHOSPHOLIPASE CNEIGHBORING	nj45g09.s1 NCI_CGAP_Pre Homo sapiens cDNA clone IMACE:995488 similar to gb:X53777 60S RIBOSOMAL PROTEIN L23 (HUMAN);	Homo sapiens mitogen-activated protein kinase kinase kinase kinase 3 (MAP4K3), mRNA	Homo sapiens mitogen-activated protein kinase kinase kinase kinase 3 (MAP4K3), mRNA	Homo sapiens chaperonin containing T-complex subunit 6 (CCT8) mRNA	Homo sapiens syncytin precursor, mRNA, complete cds	Homo saplens chromosome 21 segment HS21C001	Homo sapiens small inducible cytokine subfamily A (Cys-Cys), member 14 (SCYA14) mRNA	tz43c11.y1 NCI_CGAP_Brn52 Homo sapiens cDNA clone IMAGE:2291348 5'	Homo sapiens KIAA0100 gene product (KIAA0100), mRNA	Homo saplens mRNA for KIAA 1591 protein, partial cds	Homo sapiens mRNA for KIAA1591 protein, partial cds	Homo sapiens EVI5 homolog mRNA, complete cds	Homo sapiens neurofibromin 1 (neurofibromatosis, von Recklinghausen disease, Watson disease) (NF1), mRNA	Homo sapiens mRNA for brain ryanodine receptor, complete cds	Homo sapiens Janus kinase 2 (a protein tyrosine kinase) (JAK2), mRNA	Homo sapiens serologically defined colon cancer antigen 10 (SDCCAG10), mRNA	Homo sapiens serologically defined colon cancer antigen 10 (SDCCAG10), mRNA	Homo sapiens pescadillo (zebrafish) homolog 1, containing BRCT domain (PES1), mRNA	Homo sapiens period (Drosophila) homolog 3 (PER3), mRNA	601899230F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4128535 5'	Homo sapiens similar to nuclear factor related to kappa B binding protein (H. sapiens) (LOC63182), mRNA	2010e09.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:731464 5'
	Top Hit Detabase Source	IN	NT		EST_HUMAN	EST HUMAN	Z	EST HUMAN	EST HUMAN	Ę	LN T	F	NT	TN	IN	EST_HUMAN	IN	IN	IN	ΙN	TN	N	Ŋ	IN	NT TN	IN	IN	EST_HUMAN	TN	EST_HUMAN
Sign Sign Sign Sign Sign Sign Sign Sign	Top Hit Acession No.	5031900 NT	4507164 NT		2.0E-54 AA655008.1	AW 163175.1	2.0E-54 AL163210.2	2.0E-54 AW057524.1	2.0E-54 AA532925.1	4506376 NT	4506376 NT	4502642 NT	AF208161.1	2.0E-54 AL163201.2	4759069[NT	2.0E-54 BE047864.1	11426657	2.0E-54 AB046811.1	2.0E-54 AB046811.1	AF008915.1	11426544 NT	2.0E-54 AB001025.1	11429127 NT	11416762 NT	11416762 NT	7657454 NT	8567387 NT	1.0E-54 BF315418.1	11417222 NT	1.0E-54 AA412409.1
	Most Similar (Top) Hit BLAST E Value	2.0E-54	2.0E-54		2.0E-54	2.0E-54	2.0E-54	2.0E-54	2.0E-54	2.0E-54	2.0E-54	2.0E-54	2.0E-54			2.0E-54	2.0E-54	2.0E-54	2.0E-54	2.0E-54	2.0E-54	2.0E-54	2.0E-54	2.0E-54	2.0E-54	2.0E-54	2.0E-54	1.0E-54	1.0E-54	1.0E-54
	Expression Signal	29.57	1.59		1.03	0.88	1.28	1.26	5.09	0.62	0.62	2.42	1,11	3.09	2.15	96:0	3.66	11.65	11.65	0.88	8.13	3.27	1.45	0.88	0.88	3.33	2.87	1.23	0.64	0.56
	S ⊡	25774			28719	27709		28012			28976				30773			31381	31382	32165	32557	35008			35520		E060E			35640
	<u> </u>		14002		14188	15139		15537	16206	16513	16513	16869	17120	L				18641		19356	19709	22047	L.	22523	22523	24020	24539	17147	21203	
	Probe SEQ ID NO:	670	1409		1595	2577	2635	2920	3602	3915	3915	4283	4536	4541	5666	5788	5935	6022	6022	6763	7177	9547	9922	10028	10028	11573	12368	4564	8664	10152

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Probe SEQ ID NO: 10152			_	_	_	•	
10152	SEO ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
	22647	35641	0.58	1.0E-54	-54 AA412409.1	EST HUMAN	zu10e09.r1 Soares_testis_NHT Homo saplens cDNA clone IMAGE:731464 5
							AU077341 Sugano cDNA library Homo sapiens cDNA clone Zn6C880 similar to 5'-end region of Human
12547	24652		3.58			EST_HUMAN	gamma-glutamy/ transpeptidase mRNA, 5 end
10262	22757	35744	0.81		.1	EST_HUMAN	QV2-BT0635-160400-143-h12 BT0635 Homo saplens cDNA
1359	13953		0.91		8.0E-55 Y07829.2	NT	Homo saplens RFB30 gene for RING finger protein
1362	13958		2.21	8.0E-55		N	Homo sapiens RFB30 gene for RING finger protein
11075	23587		2.49	8.0E-55	8.0E-55 AW409714.1	EST_HUMAN	fh02a02.x1 NIH_MGC_17 Homo saplens cDNA clone IMAGE:2960907 5'
							y/20604.11 Scares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:127998 5' similar to
1120	13723	26236	1.55	7.0E-55	-55 R09346.1	EST_HUMAN	SP:CS61_BOVIN P10897 CYTOCHROME;
8739	21278		175	7.0F-55	7 0F-55 AW103839 1	FST HIMAN	xd78c02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone tMAGE:2603522 3' similar to TR:060365_ O60365 FOS:36554 1 1
9109	21645	34586		7.0E-55	T	EST HUMAN	ak28a11.s1 Spares testis NHT Homo sapiens cDNA clone IMAGE:1407260 3
9142	21677			7.0E-55	1	EST HUMAN	AU139909 PLACE1 Homo saplens cDNA clone PLACE1011578 5
11087	23599		-	7.0E-55	Γ	EST HUMAN	ta2909 x1 NCI CGAP Ut1 Home septems cDNA clone IMAGE:2210249 31
11087	23599			7.0E-55		EST HUMAN	tt 29f09.x1 NCI_CGAP_Ut1 Homo sapiens cDNA clone IMAGE:2210249 3'
12516	24985		9.6	7.0E-55	-55 H23396.1	EST HUMAN	ym57g07.r1 Soares Infant brain 1NIB Homo sapiens cDNA clone IMAGE:52444 5'
11389	23841	36906	2.37	6.0E-55	-55 AB040934.1	N	Homo sapiens mRNA for KIAA1501 protein, partial cds
1808	14396	26940	1.13	5.0E-55		EST_HUMAN	295b09.s1 Scares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:462617 3'
1806	14396		1.13	5.0E-55	5.0E-55 AA704971.1	EST_HUMAN	295b09.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:462617 3'
1989	19257		1.88	5.0E-55	4502240 NT		Homo saplens anysulfatase E (chondrodysplasia punctata 1) (ARSE), mRNA
1999	19257	32061	1.88	5.0E-55	4502240 NT	LN	Homo sapiens anysulfatase E (chondrodysplasia punctata 1) (ARSE), mRNA
6772	24769	32174		5.0E-55	4505952 NT	L	Homo sapiens paraoxonase 2 (PON2) mRNA, and translated products
6772	24769	32175		5.0E-55	4505952 NT	NT	Homo sapiens paraoxonase 2 (PON2) mRNA, and translated products
7337	19864	32728	0.79	5.0E-55	11434422 NT	LN	Homo saplens speckle-type POZ protein (SPOP), mRNA
7936	20478	33388	0.65	5.0E-55	11526491 NT	NT	Homo sapiens BCL2-associated athanogene (BAG1), mRNA
8974	21512	34435	2.35	5.0E-55	4506302 NT	N	Homo sapiens protein tyrosine phosphatase, receptor type, alpha polypeptide (PTPRA) mRNA
9243	21769		1.89	5.0E-55	:-55 BE064386.1	EST_HUMAN	RC4-BT0310-110300-015-f10 BT0310 Homo sapiens cDNA
9950	22445		1.55	5.0E-55	-55 AB014511.1	NT	Homo sapiens mRNA for KIAA0611 protein, parttal cds
0566	22445		1.55	5.0E-55	-55 AB014511.1	NT	Homo sapiens mRNA for KIAA0611 protein, partial cds
10122	22617	35608	0.83	5.0E-55		NT	Homo sapiens nel (chicken)-like 2 (NELL2), mRNA
11925	24260		2.15	5.0E-55	11417972 NT		Homo sapiens pescadillo (zebrafish) homolog 1, containing BRCT domain (PES1), mRNA
ŝ	15406			4.0E-55	AW957994.1	EST_HUMAN	EST370064 MAGE resequences, MAGE Homo sapiens cDNA
700	13322		4	4.0E-55	4826973 NT	Z	Homo sapiens RNA binding motif protein, Y chromosome, family 1, member A1 (RBMY1A1) mRNA
1489	14082	26621	1.12	4.0E-55	7661713 NT	LV.	Homo saplens predicted osteoblast protein (GS3786), mRNA

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Table 4
Single Exon Probes Expressed in Fetal Liver

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Single Exon Plobes Expressed in Fetal Liver	Top Hit Descriptor	UI-H-BIOp-aau-a-05-0-UI.s1 NCI_CGAP_Sub2 Homo sapiens cDNA clone IMAGE:27105443'	43c5 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA	CHR220038 Chromosome 22 expn Hamo sapiens cDNA clane C22_55 5'	Homo sapiens beta-tubulin mRNA, complete cds	Homo sapiens beta-tubulin mRNA, complete cds	Homo sapiens tubulin, beta polypeptide (TUBB) mRNA	Homo sapiens tubulin, beta polypeptide (TUBB) mRNA	Homo sapiens X-linked anhidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions	Homo sapiens uncharacterized bone marrow protein BM031 mRNA, complete cds	Homo saplens uncharacterized bone marrow protein BM031 mRNA, complete cds	Homo sapiens lymphocyte-specific protein 1 (LSP1) gene, LSP1-7 allele, partial cds	tm65g12.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2163046 3'	tm65g12.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2183046 3'	Homo sapiens hypothetical protein PRO1304 (PRO1304), mRNA	Homo sapiens 5:3' exoribonuclease 2 (XRN2), mRNA	EST28889 Cerebellum II Homo sapiens cDNA 5' end	EST28889 Cerebellum II Homo sapiens cDNA 5' end	Homo sapiens MHC class 1 region	601310203F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3631848 5'	Homo sapiens Down syndrome candidate region 1 (DSCR1), mRNA	Homo sapiens chromosome 21 segment HS21C068	Homo sapiens superkiller viralicidic activity 2 (S. cerevisiae homolog)-like (SKIV2L), mRNA	601438154F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3923100 5	Homo sapiens phosphotidylinositol transfer protein, beta (PITPNB), mRNA	Homo sapiens phosphotidylinositol transfer protein, beta (PITPNB), mRNA	Homo sapiens sparc/osteonectin, cwcv and kazal-like domains proteoglycan (testican) (SPOCK) mRNA	Homo saplens sparc/osteonectin, cwcv and kazal-like domains proteoglycan (testican) (SPOCK) mRNA	Homo sapiens lysosomal-associated membrane protein 2 (LAMP2), mRNA	Homo sapiens bone morphogenetic protein 5 (BMP5), mRNA	Homo sapiens mRNA for KIAA0145 protein, partial cds	Homo sapiens KIAA0317 gene product (KIAA0317), mRNA
Exon Plobes	Top Hit Database Source	EST_HUMAN		EST_HUMAN (Ł	Į.			Į.		-		EST_HUMAN t	EST_HUMAN t				EST_HUMAN E		EST_HUMAN (IN		T_HUMAN								
eignic	Top Hit Acession No.	1.7	5.0E-56 W28189.1	E-56 H55099.1	4.0E-56 AF141349.1	E-56 AF141349.1	4507728 NT	4507728 NT	4.0E-56 AF003528.1		:-56 AF217508.1	-56 AF043349.1	-56 A/498066.1		8924029 NT	6912743 NT		3.0E-56 AA325826.1			7657042 NT	3.0E-56 AL163268.2	2085	E-56 BE893572.1	6912593 NT	6912593 NT	4759163 NT	4759163 _{NT}	11421124 NT	11418704 NT	E-56 D63479.2	11434956 NT
	Most Similar (Top) Hit BLAST E Value	5.0E-56	5.0E-56	5.0E-56	4.0E-56	4.0E-56	4.0E-56	4.0E-56	4.0E-56/	4.0E-56 /	4.0E-56 /	4.0E-56/	4.0E-56	4.0E-56 /	3.0E-56	3.0E-56	3.0E-56	3.0E-56	3.0E-56	3.0E-56	3.0E-56	3.0E-56 /	3.0E-56	3.0E-56		3.0E-56	3.0E-56	3.0E-56	3.0E-58	3.0E-56	3.0E-56	3.0E-56
	Expression Signal	8.0	1.35	3.74	22.23	22.23	7.6	7.6	3.4	5.85	5.85	1.2	8.31	8.31	2.12	4.33	1.88	1.88	2.38	6.0	0.62	5.15	2.57	1.14	9.0	0.59	1.4	1.4	6.22	5.2	0.86	1.63
	ORF SEQ ID NO:	34559			25166		27855	27856	25661	31789	31790	35889	36335	36336	26507	26936	28240	28241		29061	29512	29546	29707			30269	31208	31209	32358			35862
	SEQ ID NO:	21624	22784	25048	12709	12709	15288	15288	13183	1	19008	22894	23326	23326	13980	14391	15773	15773		16589		17099				17842	18485	18485	19533		l I	22869
	Probe SEQ ID NO:	8088	10289	12020	30	30	2733	2733	2838	8405	6405	10400	10803	10803	1386	1801	3159	3159	3903	3991	4477	4515	4673	4925	5280	5346	5863	5863	6956	8750	9727	10375

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Top Hit Descriptor	Homo sapiens mRNA for KIAA0837 protein, partial cds	Homo sapiens hypothetical protein FLJ20371 (FLJ20371), mRNA	Homo sapiens SH3-domain binding protein 1 (SH3BP1), mRNA	Homo sapiens GYS2 gene, exon 14	Homo sapiens NME7 (NME7), mRNA	Homo sapiens NME7 (NME7), mRNA	Homo sapiens Kruppel-like factor 8 (KLF8), mRNA	Homo sapiens phosphatidylinositol 4-kinase 230 (pi4K230) mRNA, complete cds	Homo sapiens phosphalidylinositol 4-kinase 230 (pi4K230) mRNA, complete cds	Homo sapiens FRA3B common fragile region, diadenosine triphosphale hydrolase (FHIT) sene. exon 5	Homo sapiens Xq pseudoautosomal region; segment 1/2	Hamo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)	Homo sapiens ubiquitin protein ligase E3A (human papilloma virus E8-associated protein, Angelman	syndrome) (USE3A) mRNA	nc13f07.s1 NCI_CGAP_Pr1 Homo sapiens cDNA clone IMAGE:1008037 similar to SW:RS10_HUMAN_P48783 40S RIBOSOMAL PROTEIN S10.;	EST54770 Hippocampus II Homo sapiens cDNA 5' end	7733b10.x1 NCI_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:3298443 3' similar to WP:Y47H9C.2 CE20283 ;	783b10.x1 NCI_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:3296443 3' similar to WP:Y47H9C.2 CE20263 :	Homo sapiens cell-line tsA201a chloride ion current inducer protein I(Cln) gene, complete cds	RC3-CT0254-110300-027-d10 CT0254 Homo sapiens cDNA	Homo sapiens angiotensin I converting enzyme (peptidy/-dipeptidase A) 2 (ACE2), mRNA	601589896F1 NIH_MGC_7 Homo sepiens cDNA clone IMAGE:3944302 5'	42/6 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA	Homo sapiens hypothetical protein FLJ11656 (FLJ11656), mRNA	Homo sapiens hypothetical protein FLJ11656 (FLJ11656), mRNA	Homo sapiens KIAA0649 gene product (KIAA0649), mRNA	Human famesyl pyrophosphate synthetase mRNA, complete cds	AU117659 HEMBA1 Homo sapiens cDNA clone HEMBA1001910 5'	Homo sapiens hypothetical protein FLJ11656 (FLJ11656), mRNA
Top Hit Database Source	N	N	F	LN L	NT.	Į.	LN	N.	LN	LN	LN L	Z				EST_HUMAN	EST_HUMAN	EST HUMAN	Г	EST_HUMAN		HUMAN	EST_HUMAN					EST_HUMAN	
Top Hit Acession No.	-57 AB020644.1	8923349 NT	11545732 NT	E-57 AJ003100.1	7242158 NT	7242158 NT	FN 6205979 NT		7.0E-57 AF012872.1	7.0E-57 AF020503.1	5.0E-57 AJ271735.1	4.0E-57 AB026898.1	TIM BOOTTOOL	88//R4	3.0E-57 AA230279.1	3.0E-57 AA348335.1	-67 BE 676622.1	3.0E-57 BE676622.1	3.0E-57 AF232708.1	3.0E-57 AW853964.1	11225608 NT	3.0E-57 BE796537.1	-57 W28130.1	11545798 NT	11545788 NT	11427757 NT		E-57 AU117659.1	11545798 NT
Most Similar (Top) Hit BLAST E Value	8.0E-57	8.0E-57	8.0E-57	7.0E-57	7.0E-57	7.0E-57	7.0E-57	7.0E-57	7.0E-57	7.0E-57	5.0E-57	4.0E-57	73 30 6	3.05-57	3.0E-57	3.0E-57	3.0E-57	3.0E-57	3.0E-57	3.0E-57	3.0E-57	3.0E-57	3.0E-57	3.0E-57	3.0E-57	3.0E-57	3.0E-57	3.0E-57	3.0E-57
Expression Signal	2.72	3.59	1.41	1.16	1.08	1.08	1	2.3	2.3	1.06	5.12	891		3	39.52	1.01	0.93	0.83	0.93	60.31	1.34	3.17	3.09	2.27	2.27	0.61	1.18	4.05	0.63
ORF SEQ ID NO:					28376	28377			29012			28880	25083	20902		27573	27849	27850	28699		31559					33681	33827	34255	34698
Exan SEQ ID NO:		12694	24477		15898	15898	1	1	16544	17108	24992	16417		255		15001	15282	15282	16221					20652				I	21751
Probe SEQ ID NO:	7729	11351	12271	1261	3287	3287	3309	3946	3946	4524	12634	3817	837	ì	1376	2434	2727	2727	3818	3760	6180	6272	8087	8111	8111	8223	8368	8792	9174

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Probe SEQ ID NO:	SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
9174	21751			3.0E-57	11545798 NT	NT	Homo sapiens hypothetical protein FLJ11656 (FLJ11656), mRNA
10787	23311	36318	3.02	3.0E-57	3.0E-57 AW 248374.1	EST_HUMAN	2820473 Sprime NIH_MGC_7 Hano sapiens cDNA clone IMAGE: 2820473 5'
11890				3.0E-57	W23871.1	EST_HUMAN	2045d11.r1 Soares_feta_lung_NbHL19W Homo sapiens cDNA clone IMAGE:306549 5
12272	24962		1.69	3.0E-57	AW178575.1	EST_HUMAN	RC0-HT0112-080999-001-C06 HT0112 Homo sapiens cDNA
							tm25c10.x1 Soares_NFL_T_GBC_S1 Home sapiens cDNA clone IMAGE:2157618 3' similar to contains Alu
- 8	┛	28812		2.0E-57	7	EST HUMAN	repetitive element;
1548		28673	96'0	2.0E-57		NT	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds
1548		26674		2.0E-57		NT	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds
2444	15011	27583		2.0E-57	2.0E-57 BE172526.1	EST_HUMAN	MR0-HT0559-010400-009-h10 HT0559 Homo sapiens cDNA
							ak02b02.s1 Soares_parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:1404747 3' similar to
2758		27877	4.79	2.0E-57	2.0E-57 AA845419.1	EST_HUMAN	contains Alu repetitive element; contains element MER22 repetitive element;
3486				2.0E-57	AL163204.2	TN.	Homo sapiens chromosome 21 segment HS21C004
3605		28688		2.0E-57	R07702.1	EST_HUMAN	ye98h01.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:125809 5'
3805	16209	28689		2.0E-57	R07702.1	EST_HUMAN	ye98h01.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:125809 5/
4004	16602	29076	0.62	2.0E-57	BE073264.1	EST_HUMAN	MR0-BT0551-060300-103-b03 BT0551 Homo sapiens cDNA
4608	17191	29637		2.0E-57	AL163283.2	IN	Homo sapiens chromosome 21 segment HS21C083
							ze31c05.r1 Soares retina N2b4HR Homo sapiens cDNA clone IMAGE:360584 5' similar to contains L1.t3 L1
5849	18473		1.57	2.0E-57	2.0E-57 AA016131.1	EST_HUMAN	repetitive element;
	-		1				7n80f04.x1 NCI_CGAP_Ov18 Homo sapiens cDNA clone IMAGE:3570968 3' similar to contains TAR1.t1
8	18794		29.73	2.0E-57	BF1152	EST_HUMAN	MER22 repetitive element;
6307	18914	31688	0.73	2.0E-57	11431281 NT	LN	Homo sapiens small inducible cytokine subfamily A (Cys-Cys), member 22 (SCYA22), mRNA
8286	21105	34024	1.22	2.0E-57		IN	Homo sapiens cell-line KG1 transcriptional regulatory protein p54 mRNA, complete cds
9760	22258	35241	2.55	2.0E-57	2.0E-57 AF057722.1	NT	Homo sapiens 17-beta-hydroxysteroid dehydrogenase IV (HSD17B4) gene, exons 3 and 4
11150	23658	38701	2.05	2.0E-57	11424084 NT	NT	Homo sapiens hypothetical protein FLJ20041 (FLJ20041), mRNA
11150	23658	36702	2.05	2.0E-57	11424084 NT	NT	Homo sapiens hypothetical protein FLJ20041 (FLJ20041), mRNA
11192	23697	36746	1.84	2.0E-57	2.0E-57 AJ245503.1	IN	Homo sapiens partial mRNA for PEX5 related protein
11192	23697	36747	1.84	2.0E-57	AJ245503.1	IN	Homo sapiens partial mRNA for PEX5 related protein
							ho32a08.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3039062 3' similar to TR:000246 000246
8828	21185		3.5	1.0E-57	1.0E-57 BE043031.1	EST_HUMAN	HYPOTHETICAL 9.3 KD PROTEIN;
							ha33d06.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2875499 3' similar to centains THR.b3
12049			6.35	1.0E-57	ı	EST_HUMAN	THR repetitive element ;
5857	- 1	31203	1.02	9.0E-58	- [EST11348 Uterus Homo sepiens cDNA 5' end
12335	L	30922	2.62	9.0E-58	9.0E-58 BE395061.1	EST_HUMAN	801309465F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3631000 5'
915	13242		3.87	8.0E-58	- [801445948F1 NIH_MGC_85 Homo sapiens cDNA clone IMACE:3850211 5'

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Table 4
Single Exon Probes Expressed in Fetal Liver

	۲					
ORF SEQ Expression ID NO: Signal	Expression Signal		Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
25789 3.77	3.77		8.0E-58	8.0E-58 AI798376.1	EST_HUMAN	tr34b07x1 NCI_CGAP_Ov23 Homo sepiens cDNA clone IMAGE:2220181 3' similar to TR:O15475 O15475 UNNAMED HERV-H PROTEIN;
25790 3.77	3.77		8.0E-58	8.0E-58 AI798376.1	EST_HUMAN	tr34b07.x1 NCI_CGAP_Ov23 Homo sapiens cDNA clone IMAGE:2220181 3' similar to TR:015475 O15475 UNNAMED HERV-H PROTEIN;
27041 2.82	2.82		8.0E-58	134921	LN	Homo sapiens putative protein O-mannosyltransferase (POMT2), mRNA
	2.82		8.0E-58	. 11434921 NT	LZ	Homo sapiens putative protein O-mannosytransferase (POMT2), mRNA
2.94	2.94		8.0E-58	7706132 NT	FZ	Homo sapiens DHHC1 protein (LOC51304), mRNA
6.42	6.42		7.0E-58	5174542 NT	Ľ	Homo sapiens MADS box transcription enhancer factor 2, polypeptide B (myccyte enhancer factor 2B) (MEF2B) mRNA
36344 3.77	3.77		7.0E-58	AW 504109.1	HUMAN	UI-HF-BN0-all-g-10-0-UI.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3079887 5'
	3.77	_	7.0E-58		EST_HUMAN	UI-HF-BN0-ali-g-10-0-UI.r1 NIH_MGC_50 Homo sepiens cDNA clone IMAGE:3079867 5'
27558 3.39	3.39		6.0E-58	6.0E-58 AU130689.1	EST_HUMAN	AU130689 NT2RP3 Homo saplens cDNA clone NT2RP3001263 5'
28017 1.26	1.26		6.0E-58	6.0E-58 BE242150.1	EST HUMAN	TCAAP1E1219 Pediatric acute myelogenous leukemia cell (FAB M1) Baylor-HGSC project=TCAA Homo sapiens cDNA clone TCAAP1219
28018 1.26	1.26		6.0E-58	6.0E-58 BE242150.1	EST HUMAN	TCAAP1E1219 Pediatric acute myelogenous leukemia cell (FAB M1) Baylor-HGSC project=TCAA Homo sapiens cDNA clone TCAAP1219
31702 1.15	1.15				N	Homo sapiens chemokine MIP-2 gamma (MIP-2 gamma) mRNA, complete cds
35700 0.99	66.0		6.0E-58	11434746 NT	12	Homo sapiens protein tyrosine phosphatase, non-receptor type 21 (PTPN21), mRNA
1.87	1.87		6.0E-58	11526291 NT	NT	Homo sapiens hypothetical protein FLJ20454 (FLJ20454), mRNA
25464 3.26	3.26		5.0E-58	4507334 NT	NT	Homo sapiens synaptojanin 1 (SYNJ1), mRNA
25853 5.81	5.81		5.0E-58		EST_HUMAN	RC4-NT0057-160600-016-b05 NT0057 Homo sapiens cDNA
	3.59	_	5.0E-58	5.0E-58 AW 797948.1	EST_HUMAN	CM3-UM0043-240300-127-e07 UM0043 Homo sapiens cDNA
26351 3.59	3.59	_	5.0E-58	-58 AW 797948.1	EST_HUMAN	CM3-UM0043-240300-127-e07 UM0043 Homo sapiens cDNA
26350 . 2.7	2.7	_	5.0E-58	-58 AW 797948.1	EST_HUMAN	CM3-UM0043-240300-127-e07 UM0043 Homo sapiens cDNA
26351 2.7	2.7	_	5.0E-58	E-58 AW 797948.1	EST_HUMAN	CM3-UM0043-240300-127-e07 UM0043 Homo sapiens cDNA
28450 4.17	4.17	_	5.0E-58	E-58 AA988183.1	EST_HUMAN	or98e07.s1 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1603908 3'
29373 0.78	0.78		5.0E-58	E-58 AI636745.1	EST HUMAN	ts89e07.x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMA GE:2238468 3' similar to SW:PRO2_ACACA P19984 PROFILIN II :
	1,12	+-		AW848834.1	EST_HUMAN	IL3-CT0214-090300-081-F06 CT0214 Homo sapiens cDNA
2.08	2.06	_	5.0E-58	11496282 NT		Homo sapiens placenta-specific 1 (PLAC1), mRNA
31707 5.73	5.73	<u></u>	5.0E-58	H23072.1	EST_HUMAN	ym51h07.r1 Soares infant brain 1NIB Homo sapiens cDNA clone IMAGE:52071 5'
	8.0	7	5.0E-58	AL163285.2	NT	Homo saplens chromosome 21 segment HS21C086
31999 1.24	1.2	+	5.0E-58	11421330 NT	L	Homo sapiens apical protein, Xenopus laevis-like (APXL), mRNA
32539 0.72	0.72		5.0E-58	4885400 NT	NT	Homo sapiens holocytochrome с synthase (суtochrome с heme-lyase) (HCCS) mRNA

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					DIR: IIO	2017 T 1087	Single Excit Probes Expressed in Figure 1999
Probe SEO ID NO:	SEQ IO	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
10089	22584	35577	0.55	1.0E-58	11432994 NT	NT	Homo sapiens discs, large (Drosophila) homolog 2 (chapsyn-110) (DLG2), mRNA
11610	24053		5.43	1.0E-58	1.0E-58 X63392.1	NT	H.sapiens Immunoglobulin kappa light chain variable region L14
2273	14847	27423	16.05		7378		Homo sapiens TATA box binding protein (TBP) mRNA
8121	20662	33572	2.08	8.0E-59	8.0E-59 AI761963.1	П	wh50d06.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2384171 3
8	15409		2.18			EST_HUMAN	601458531F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3862086 5
8188	20729	33641	95:0	6.0E-59	6.0E-59 AI750970.1	EST_HUMAN	cn06h02.y/ Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NHTBC_cn08h02 random
1790	14380	26924	1.32		5.0E-59 AW157281.1	EST_HUMAN	aug3h05.x1 Schneider fetal brain 00004 Hamo sapiens cDNA clone IMAGE:278365.3' similar to TR:075786 075786 GANGLIOSIDE-INDUCED DIFFERENTIATION ASSOCIATED PROTEIN 1.
1790	14380	26925	1.32			EST_HUMAN	aus3th05.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone INACE:2783865 3 similar to TR:075786 075788 GANGLIOSIDE-INDUCED DIFFERENTIATION ASSOCIATED PROTEIN 1.
3161	15775			L	_	EST_HUMAN	wf48c11.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2358836 3
4762			4.42		5.0E-59 X83497.1	LN	H.sapiens DNA for ZNF80-linked ERV9 long terminal repeat
2886	1_	Ì	0.81	5.0E-59	TN 8695009	NT	Homo sapiens ataxin 2 related protein (A2LP), mRNA
							au68c07.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2781228 3' similar to contains
7064	18083	30440			AW162	EST_HUMAN	element TAR1 repetitive element;
8741	21280	34203	1.35		11421778 NT	۲	Homo sapiens polymerase (RNA) III (DNA directed) (39KU) (RF C39), mRNA
9621	22121	35085	1.85		5.0E-59 AV762869.1	EST_HUMAN	AV762869 MDS Homo sapiens cDNA clone MDSEIC12 5
10786	L	36317	3.47	5.0E	11434908 NT	N.	Homo sapiens hypothetical protein (LOC3/143), mRNA
828	13443	25951	2.85	4.0E	:-59 D80006.1	¥	Human mRNA for KIAA0184 gene, partial cds
5728	18354	31058	1.22	4.0E-59	11034810 NT	N	Homo sapiens catenin (cadherin-associated protein), detta 2 (neural plakophilin-related arm-repeat protein) (CTNND2), mRNA
12004	24917		5.54		4.0E-59 AF057720.1	Į,	Homo sapiens 17-beta-hydroxystercid dehydrogenase IV (HSD17B4) gene, promoter region and exon 1
10	1_		4.75		3.0E-59 AW965524.1	EST_HUMAN	EST377582 MAGE resequences, MAGI Homo sapiens cDNA
245	L	25385	3.86		7662247 NT	NT	Homo sapiens KIAA0680 gene product (KIAA0680), mRNA
1748	L		8.2	3.0E-59	4505860 NT	INT	Homo sapiens plasminogen activator, tissue (PLATa) mRNA
1748					4505860 NT	LNT	Homo sapiens plasminogen activator, tissue (PLATa) mRNA
2174	14751	27320	7.15		3.0E-59 AB029035.1	LN.	Homo sapiens mRNA for KIAA1112 protein, partial cds
2174	14751	27321	7.15		3.0E-59 AB029035.1	님	Homo sapiens mRNA for KIAA1112 protein, partial cds.
2798		27920			3.0E-59 AF232299.1	LN	Homo sapiens NF1-2 pseudogene, exon 1/
3074				3.0E	-59 T18865.1	EST_HUMAN	h02017t Tests 1 Homo sapiens cUNA clone h02017 5 end
3074	15689	28162			3.0E-59 T18865.1	EST_HUMAN	h02017t Tests 1 Homo sapiens cUNA cione n02017 3 end
3163	15777		4.67		4502014 NT	LN I	Homo sapiens A Kinase (PKNA) and id protein I (ANAPI), mining

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		_	_	т	_		т-	_	_	_	T		_	_	_	_	$\overline{}$	_	7	_	-,-	-	_	_	_	-	_	~	~	_	_	·	_
Single Exon Probes Expressed in Fetal Liver	Top Hit Descriptor	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1), mRNA	Homo sapiens zona pellucida glycoprotein 2 (sperm receptor) (ZP2) mRNA	Homo sapiens chromosome 21 segment HS21 C084	Homo sapiens protein tyrosine phosphatase, receptor type, T (PTPRT), mRNA	Homo sapiens hypothetical protein PRO1741 (PRO1741), mRNA	Homo sapiens nuclear receptor co-repressor 1 (NCOR1), mRNA	Human mRNA for dbl proto-oncogene	Human mRNA for dbl proto-oncogene	H. sapiens CKII-alpha gene	H. sapiens CKII-alpha gene	Homo saplens gamma-glutamytransferase-like activity 1 (GGTLA1), mRNA	Home saplens gamme-glutamyitransferase-like activity 1 (GGTLA1) mRNA	UI-H-BI4-aoy-b-02-0-UI:s1 NCI CGAP Sub8 Hamo sapiens cDNA clone IMAGE:3086522.3	UI-H-BI4-apy-b-02-0-UI-S1 NCI CGAP Sub8 Homo sapiens cDNA clone IMAGE:3086522 3	EST180633 Jurkat T-cells V Homo sapiens cDNA 5' end	RC0-NT0036-100700-032-a07 NT0036 Homo sapiens cDNA	h07h04 x1 NIH MGC 17 Homo septens cDNA clone IMAGE: 2961654 5	fh07h04.x1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE.2961654 5'	wa36c12x1 NCL_CGAP_Kid11 Homo sapiens cDNA clone INAGE:2300182 3' similar to TR:Q86542 Q86542 RTVLH PROTEIN : contains I TR7 ht I TR7 renefitting alongs to	Homo sapiens alphe-tubulin mRNA, complete cds	601176757F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531927 5	qc21c08.x1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:17102543'	qc21c08.x1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:1710254 3'	os66h11.s1 NCI_CGAP_GCB1 Homo sepiens cDNa clone IMAGE:1309029 3' similar to TR:Q13537 Q13537 MER37 TRANSPOSABLE ELEMENT. COMPLETE CONSENSIS SFOLIFING	Homo sapiens mRNA for transcription factor	601111951F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352692 5	601111951F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352692 5'	Homo sapiens zinc finger protein 275 (ZNF275), mRNA	Homo sapiens 3-hydroxyisobutyryl-Coenzyme A hydrolase (HIBCH), mRNA	Homo sapiens 3-hydroxyisobutyryi-Coenzyme A hydrolase (HIBCH), mRNA	Homo sapiens mRNA for transcription factor	EST389849 MAGE resequences, MAGO Homo sapiens cDNA
Exon Probe	Top Hit Database Source	NT	NT NT	N FN	N	N	Z	NT	Ę	LZ LZ	Į.	Ł	Ę	EST HUMAN	EST HUMAN	EST_HUMAN	EST_HUMAN	EST HUMAN	EST_HUMAN	EST HUMAN	Z	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST HUMAN	Ę	EST_HUMAN	EST_HUMAN	LΝ	LN	LΖ	Ļ	EST HUMAN
Single	Top Hit Acession No.	4502014 NT	4508044 NT	3.0E-59 AL163284.2	7427522 NT	8924074 NT	5454137 NT			3.0E-59 X70251.1		11417866 NT	11417886 NT	Γ	Γ				2.0E-59 AW410698.1		2.0E-59 L11645.1			E-59 Al139341.1	1.0E-59 AA748468.1			E-59 BE256814.1	11419630 NT	11428849 NT	28849		8.0E-60 AW977845.1
	Most Similar (Top) Hit BLAST E Value	3.0E-59	3.0E-59	3.0E-59 /	3.0E-59	3.0E-59	3.0E-59	3.0E-59 X12556.1	3.0E-59 X12556.1	3.0E-59	3.0E-59	3.0E-59	3.0E-59	2.0E-59	2.0E-59	2.0E-59	2.0E-59	2.0E-59 /	2.0E-59 /	2.0E-59	2.0E-59 L	1.0E-59 E	1.0E-59	1.0E-59	1.0E-59	1.0E-59	1.0E-59	1.0E-59	1.0E-59	1.0E-59	1.0E-59	1.0E-59 A	8.0E-60 A
	Expression Signal	4.67	1.12	0.98	1.33	2.1	1.87	1.26	1.26	1.04	1.04	1.26	60.6	96.0	96:0	5.27	1.34	2.49	2.49	5.76	2.86	18.31	1.02	1.02	1.45	1.98	0.93	0.93	1.2	0.82	0.82	9.52	1.28
	ORF SEQ ID NO:	28248	28958		29984						35434			31402	31403			36252	36253	31046	30621			27653		32956			34855	34979	34980		25917
	Exan SEQ ID NO:	15777	16496	17374	17541	18973	19920	20414	20414	22452	22452	24291	24386	18663	18663	22055	22913	23238	23238	24228	24943	12837	15080	15080	15208	20080	20212	20212	21907	22022	22022	20080	13413
	Probe SEQ ID NO:	3163	3897	4796	4987	6369	7395	7872	7872	9957	9957	11980	12130	6044	6044	9555	10419	10710	10710	11879	12437	174	2516	2516	2649	7563	7703	7703	9307	9522	9522	10734	795

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	Т	T	1	Т	Т	т —	_		Т-	Т	-	-	7	_	т.	_	_	_	_	_	_	_	_	_	_		
Top Hit Descriptor	Homo sapiens Xq pseudoautosomal region: segment 1/2	RC3-LT0023-200100-012-a01 LT0023 Homo sapiens cDNA	OBOH1, 56 NCI_CGAP_Kid3 Homo sepiens cDNA clone IMAGE:1534053 5' similar to SW:UDP_MOUSE P52824 URIDINE PHOSPHORYI ASF	Homo sapiens profine dehydrogenase (profine oxidese) (PRODH) mRNA	Homo saplens proline dehydrogenase (proline oxidase) (PRODH) mRNA	ox56d09.x1 Sogres_NHHMPu_S1 Homo sapiens cDNA clone IMAGE:1660337 3' similar to SW:FORM_MOUSE 005860 FORMIN:	Homo saplens proline dehydrogenase (proline oxidase) (PRODH) mRNA	ab07h04.r1 Stratagene lung (#837210) Homo sapiens.cDNA clone IMAGE:840151 5' similar to contains LTR10.t1 LTR10 repetitive element	Homo sapiens solute carrier (SLC25A18) mRNA, complete cds. nuclear gene for mitro-hondrial product	H. sapiens 41kDs protein kinase related to rat FRK2	Human bor protein mRNA, 5' end	Homo sapiens v-raf murine sarcoma viral oncodene homolog B1 (BRAF) mRNA	Homo sapiens chromosome 21 unknown mRNA	UI-H-BW1-ams-4-05-0-UI.s1 NCI_CGAP_Sub7 Hamo sapiens cDNA clone IMAGE: 3070952 3'	nn01f12.y5 NCI_CGAP_Co9 Homo sapiens cDNA clone IMAGE:1076495 5' similar to contains THR.t1 THR recetifive element	Homo sapiens pro-alpha 2(1) collagen (COL1A2) gene, complete cds	Homo sapiens DNA polymerase zeta catalytic subunit (REV3) mRNA complete cds	Homo sapiens corticotropin releasing hormone receptor 2 (CRHR2) mRNA	Homo sapiens conticotropin releasing hormone receptor 2 (CRHR2) mRNA	EST161949 Jurkat T-cells V Homo sapiens cDNA 5' end similar to similar to prothymosin, alpha	EST181949 Jurkat T-cells V Homo sapiens cDNA 5' end similar to similar to prothymosin, alpha	UI-H-BW 1-amu-c-02-0-UI.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3071210 3'	HS15BEST human adult testis Homo sapiens cDNA clone CAM EST15	Human pre-B cell stimulating factor homologue (SDF1b) mRNA, complete cds	Homo sapiens sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6A (SEMA6A), mRNA	Homo sapiens sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6A (SEMA6A), mRNA	Homo sapiens non-histone chromosome protein 2 (S. cerevisiae) like 1 (NHP2L1), mRNA
Top Hit Database Source	LΝ	EST_HUMAN	EST HUMAN	L	N.	EST HUMAN	L	EST_HUMAN	LΝ	LZ.	ĽN.	Į.	LN	EST_HUMAN	EST HUMAN	NT	IN	Ę	LZ.	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST HUMAN	FN	۲	Ę	ΕZ
Top Hit Acessian No.	AJ271735.1	3.0E-60 AW836196.1	3.0E-60 A 792814.1	5174844 NT	5174844 NT	3.0E-80 A1040235.1	5174844 NT	3.0E-60 AA485286.1	2.0E-60 AY008285.1	211694.1	M24603.1	4757867 NT	2.0E-60 AF231919.1	2.0E-60 BF513458.1	1791952.1	2.0E-80 AF004877.1	1F157476.1	4503044 NT	4503044 NT	2.0E-60 AA311159.1	A311159.1	2.0E-60 BF512808.1	(85597.1	.36033.1	11991659 NT	11991659 NT	11418192 NT
Most Similar (Top) Hit BLAST E Value	3.0E-80	3.0E-60	3.0E-60	3.0E-80	3.0E-60	3.0E-80	3.0E-60	3.0E-60	2.0E-60	2.0E-60	2.0E-60 M24603.1	2.0E-60	2.0E-60 /	2.0E-60	2.0E-80.7	2.0E-80 /	2.0E-60 /	2.0E-60	2.0E-60	2.0E-80/	2.0E-60/	2.0E-60 E	2.0E-60 X85597.1	2.0E-60 L	2.0E-60	2.0E-60	2.0E-60
Expression Signal	1.88	2.04	-	5.3	5.3	0.51	4.75	1.71	2.84	2.86	1.24	0.72	0.78	0.65	46.0	1.65	0.89	2.08	2.08	8.14	8.14	1.05	1.05	3.38	2.67	2.67	3.98
ORF SEQ ID NO:			30477	33802		33981	34136			26597	26893	28717	29056		31833	32020	32224	30486	30487	32542	32543		33369	34267	35362	35363	
Exon SEQ ID NO:		18446	18054	20882	20882		21218	24980	12712	14062	14349	16241	16585	16792	19045	19215	19407	18042	18042	19696	19696	20140	20489	21340	22385	22385	24407
Probe SEQ ID NO:	4556	5822	7034	8341	8341	8519	2298	12520	33	1470	1759	3638	3987	4203	6443	6618	6816	6934	6934	7164	718	7628	7947	8801	9888	9888	12168

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<u> </u>			Most Similar		100	
SEO ID	SEQ ID ORF SEQ NO:	EQ Expression Signal		Top Hit Acession No.	op Hit Database Source	Top Hit Descriptor
12309	24908	1.71	2.0E-60	60 AF068757.1	NT	Homo sapiens somatostatin receptor subtype 3 (SSTR3) gene, 5' flanking region and partial cds
	24503	1.88	2.0E-60	11418068 NT	NT.	Homo sapiens similar to HSPC022 protein (H. sapiens) (LOC63504), mRNA
	24515	1.95	2.0E			Homo sapiens gene for AF-8, complete cds
<u>L</u>	13179 25657	357 0.92	1.0	:-60 BE178586.1	EST_HUMAN	PM3-HT0605-270200-001-e06 HT0605 Hamo sapiens cDNA
L		28037 0.95	1.0E	-60 AU143389.1	EST_HUMAN	AU143389 Y79AA1 Hamo sepiens cDNA clane Y79AA1001854 5'
5091			1.0E	П		Homo sapiens chromosome 21 segment HS21C085
			1.0E	-60 BE064410.1	EST_HUMAN	RC4-BT0311-141199-011-h06 BT0311 Homo sapiens cDNA
	21230	2.93	1.0	AA244041.1	EST HUMAN	nc04e12.r1 NCI_CGAP_Pr1 Homo sapiens cDNA clone IMAGE:1007182 similar to contains L1.t1 L1 repetitive element ;
1		34176 1.51	1.0	-60 AV754081.1	EST_HUMAN	AV754081 TP Hamo sapiens cDNA dane TPGAED05 5'
L			9.0E	61 AU119344.1	EST_HUMAN	AU119344 HEMBA1 Homo sepiens cDNA clone HEMBA1005583 5'
L			8.0E	-61 AW006478.1		wt05b10.x1 NCI_CGAP_Co3 Homo sapiens cDNA clone IMAGE:2506555 3'
L			8.0E	-61 AW006478.1	LHUMAN	wt05b10.x1 NCI_CGAP_Co3 Homo saplens cDNA clone IMAGE:2506555 3'
Ļ	L		8.0E	-61 X57147.1		Human endogenous retrovirus pHE.1 (ERV9)
L		33284 0.79	8.0E	1.1	EST_HUMAN	nn59g06.s1 NCI_CGAP_Lar1 Homo sapiens cDNA clone IMAGE:1088218 3'
			7.0E	7706670		Homo sapiens PXR2b protein (PXR2b), mRNA
L	L		7.0E-81	7706870 NT	L	Homo sapiens PXR2b protein (PXR2b), mRNA
L	L	25428 3.39	90.8	-61 BE409310.1	EST_HUMAN	601300638F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3635480 5
上	L	25989 2.13	8.0E	-61 BE409310.1	EST_HUMAN	601300938F1 NIH_MGC_21 Hamo sapiens cDNA clane IMAGE:3635480 5
L	13980 264	28485 13.81	8.0E	-61 AF119860.1		Homo sapiens PRO2014 mRNA, complete ods
L	14264 267		30.8	-61 BE257400.1		801109238F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3350145 5
1689	14281 266		8.0E	-61 AA596033.1	EST_HUMAN	nn68h09.s1 NCI_CGAP_Lar1 Homo sapiens cDNA clone IMAGE:10888873'
2172	14749 273	27318 0.83	B.0E	-61 AY008285.1	F	Homo sapiens solute carrier (SLC25A18) mRNA, complete cds; nuclear gene for mitochondrial product
1_			6.0E	-61 AU130689.1	EST_HUMAN	AU130689 NT2RP3 Homo sapiens cDNA clone NT2RP3001283 5'
L		31561 3.08		8.0E-61 S79249.1	NT	ig-beta/B29=CD79b (alternative)y spliced) [human, B cells, mRNA Partial, 375 nt]
	L	32771 1.71		6.0E-61 U24498.1	TN	Human autosomal dominant polycystic kidney disease protein 1 (PKD1) gene
7614		33004 1.95		6.0E-61 AF035737.1	TN	Homo sapiens general transcription factor 2-i (GTF2I) mRNA, complete cds
1	L	25969 1.38		BE409310.1	EST_HUMAN	601300938F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3635480 5
L				5.0E-61 8922990 NT	N	Homo sapiens hypothetical protein FLJ11316 (FLJ11316), mRNA
L.		25380 2.06		N 8922990 NT	LN.	Home sapiens hypothetical protein FLJ11316 (FLJ11316), mRNA
382	13029 25	25517 0.61			N	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAMT) mKNA
		2		4506008 NT	뒫	Homo sapiens protein phosphatase 1, regulatory subunit 10 (PPP1R10) mKNA
3071	15686 28	28158 1.9		5.0E-61 AL163279.2	Į.	Hamo sapiens chramosome 21 segment H327 C078

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		ne 21422 seament 1/3	NA		1220 5'	4 clone CBDAGR04						ne IMAGE:246453 3' similar to	AGE:270180 #*	imp) and order the control	unip) non-catalytic accessory protein			A IMAGE 3078774 5	mRNA			ke (ORC2L) mRNA). mRNA	369 5' similar to contains element		K) mBNA	KIMENA	Inne IMAGE 2732871 3	lone IMAGE 2732871 3		
Onlyie Exult Plobes Expressed in Petal Liver	Top Hit Descriptor	Homo sapiens 959 kb contra between AML1 and CBR1 on chromosome 21022: segment 1/3	Homo sapiens T-cell hymphome invasion and metastasis 1 (TIAM1) mBNA	AV731140 HTF Homo sapiens cDNA clone HTFARR01 5:	801309785F1 NIH MGC 44 Homo sapiens cDNA clone IMAGE 3631220 5	AF150190 Human mRNA from cd34+ stem cells Homo sapiens cDNA clone CBDAGB04	EST14323 Testis tumor Homo sapiens cDNA 5' end	EST14323 Testis tumor Homo sapiens cDNA 5' end	Homo saplens hypothetical protein FLJ11026 (FLJ11026), mRNA	QV3-HT0513-060400-147-d01 HT0513 Homo sepiens cDNA	QV3-HT0513-060400-147-d01 HT0513 Homo saplens cDNA	yv53411.s1 Sogres fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:246453 3' similar to	90. L25444 805 KIBOSOMAL PKOTEIN L35A (HUMAN); W03f11.r1 Soares melanocyle 2NbHM Homo sepiens cDNA close IMAGE 270189 F	Homo sapiens A TPase H+ transporting Negocome (Vacualer regions arms) and patchets	14 (110/116kD) (ATP6N1A), mRNA	AV894317 GKC Homo sapiens cDNA clone GKCELG06 5'	Homo saplens mRNA for KIAA0536 protein, partial cds	UI-HF-BN0-akd-f-12-0-UI.1 NIH MGC 50 Homo sapiens cDNA clone IMAGE 3078774 5	Homo sapiens polymerase (RNA) III (DNA directed) (39kD) (RPC39), mRNA	Homo sapiens ribosomal protein L44 (RPL44), mRNA	Homo saplens chromosome 21 segment HS21C003	Homo sapiens origin recognition complex, subunit 2 (yeast homolog)-like (ORC2L) mRNA	Homo sapiens chromosome 21 segment HS21C003	Homo sapiens zona pellucida glycoprotein 3A (sperm receptor) (ZP3A), mRNA	xx11b09.y1 NCI_CGAP_LI5 Homo saplens cDNA clone IMAGE:2693369 5' similar to contains element MSR1 receitive element:	Homo saplens KIAA0806 gene product (KIAA0808) mRNA	Homo sablens TRAF family member-associated NEKB activator (TANK) mBNA	Homo sapiens TRAF family member-associated NFKB activator (TANK) mRNA	UI-H-BW0-ait-b-08-0-UI.s1 NCI CGAP Sub6 Home sepiens cDNA clone IMAGE: 2732871 ?	UI-H-BW0-alt-b-08-0-UI.s1 NCI CGAP Sub6 Homo saplens cDNA clone IMAGE 2733871 3	Homo sablens KIAA0783 gene product (KIAA0783) mRNA	
JUSS EXPIRS	= 9. a	Homo sa	Homo sa	T	Г	Г	Г	Г	1	1	Г		-1	Т	1A (110/1	Г	Homo sag	Π	Π	Homo sag	Homo sap	Homo sar	Homo sap	Homo sag		Т	Homo sag	Homo sap	Г	Т	Г	
EXOII FIG	Top Hit Database Source	Z	Z	EST HUMAN	EST HUMAN	EST HUMAN	EST_HUMAN	EST HUMAN	ĮZ.	EST HUMAN	EST HUMAN	Hou	EST HUMAN		Ł	EST_HUMAN	Į.	EST HUMAN	Z	ΙZ	Σ	۲	NT	NT	EST HUMAN	Ę	ΙZ	Į.	EST HUMAN	EST_HUMAN	Ę	
ignic	Top Hit Acession No.	AJ229041.1	4507500 NT	4.0E-61 AV731140.1	3.0E-61 BE396279.1	3.0E-61 AF150190.1	3.0E-61 AA301233.1	AA301233.1	E-61 8922829 NT	2.0E-61 BE168410.1	E-61 BE168410.1	NEDOSO 4	2.0E-61 N39397,1		11426166 NT	2.0E-61 AV694317.1	2.0E-61 AB011108.1	AW 500256.1	2.0E-61 11421778 NT	11419729 NT	1.0E-61 AL 163203.2	5453829 NT	1.0E-61 AL183203.2	6005983 NT	1.0E-61 AW827281.1	7662319 NT	4759249 NT	4759249 NT	1.0E-61 AW298181.1	1.0E-61 AW 298181.1	7662303 NT	
	Most Similar (Top) Hit BLAST E Value	5.0E-61	5.0E-61	4.0E-61	3.0E-61	3.0E-61	3.0E-61	3.0E-61	2.0E-61	2.0E-61	2.0E-61	2 OF 84	2.0E-61		2.0E-61	2.0E-61	2.0E-61	2.0E-61	2.0E-61	2.0E-61	1.0E-61	1.0E-61	1.0E-61	1.0E-61	1.0E-61	1.0E-61	1.0E-81	1.0E-61	1.0E-61	1.0E-61	1.0E-81	
	Expression Signal	1.91	69.0	4.95	96.0	0.63	0.51	0.51	1.29	1.98	1.98	1 22	1.54		0.85	1.01	1.55	1.59	1.99	9.83	0.91	1.25	0.98	3.87	1.55	0.88	1.48	1.48	10.61	10.61	0.89	
	ORF SEQ ID NO:		25517		29325	33821	34083	34084	25838	26368	26369	26835			31951	34406		35316	35636			25928	26565	27043	27385	28511	29564	29565	29998	29999	31218	
	Exon SEQ ID NO:	16650	13029	24215		20900					13851	14298	1		19155		21880							14483	14813	16030	17118		17556	17556		
	Probe SEQ ID NO:	4053	5144	11856	4292	8360	8629	8629	524	1254	1254	1705	2867		6557	8945	9481	9836	10149	10764	460	805	1443	1898	2238	3422	4534	4534	4982	4982	5868	

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					5		
Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
7148	19881	32522	0.73	1.0E-61	4759171 NT	FZ	Homo sapiens SC35-interacting protein 1 (SRRP129), mRNA
7242	L	32627	25.	1.0		LN L	Homo saplens hypothetical protein FLJ20128 (FLJ20128), mRNA
7242	19771	32628	1.54	1.0E-61	8923130 NT	Ŋ	Homo sapiens hypothetical protein FLJ20128 (FLJ20128), mRNA
8075	20617		6.29	1.0E-61	11034840 NT	FN	Homo sapiens growth hormone releasing hormone (GHRH), mRNA
8255	20796	33713	3.19	1.05	-61 AF224669.1	FZ	Homo sapiens mannosidase, beta A, Iysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3 (UBE2D3) genes, complete cds
9026	ſ		2.29			T HUMAN	MR0-BN0070-040400-010-h01 BN0070 Homo sapiens cDNA
9228		34756	1.1	1.0E-81	280		Homo sapiens cadherin 18 (CDH18), mRNA
9942		35414	5.78	1.0E-61	11428892 NT	Ā	Homo sapiens KIAA0971 protein (KIAA0971), mRNA
10514	23052			1.0E-61	11425578 NT		Homo sapiens actinin, alpha 4 (ACTN4), mRNA
11751	24966		1.58	1.0E-61	1.0E-61 AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
11793	Ш		3.23	1.05-61	11430460 NT		Homo saplens low density lipoprotein-related protein 2 (LRP2), mRNA
11783	24955			1.0E-61	11430460 NT		Homo saplens low density lipoprotein-related protein 2 (LRP2), mRNA
12173	24412	ľ		1.0E-61	1.0E-61 M20809.1		Human kappa-immunoglobulin germline pseudogene (Chr1) variable region (subgroup V kappa I)
12494		30891		1.0E-61	11418127 NT	ΤN	Homo sapiens GTP binding protein 1 (GTPBP1), mRNA
10259			1.82	9.0E-62	-62 BE064386.1	EST_HUMAN	RC4-BT0310-110300-015-f10 BT0310 Homo sepiens cDNA
4649	17231	29688	1.03	8.0E-62	-62 AA830420.1	EST HUMAN	oc66h11.s1 NCL CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1354725 3' similar to SW:POL_MLVRK P31795 POL POLYPROTEIN:
12852	L			8.0E-62		HUMAN	nz75g01.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1301328 3'
1148	L	26258	1.31	7.0E-62	7.0E-62 AV714334.1	HUMAN	AV714334 DCB Hamo sapiens cDNA clane DCBAMA08 5'
3554	18158		0.0	7 OF A2		ewiseDBOT	NUCLEOLAR TRANSCRIPTION FACTOR 1 (UPSTREAM BINDING FACTOR 1) (UBF-1)
6075	L			7.0E-62	E-62 11427965 NT		Homo sapiens hypothetical protein (FLJ20261), mRNA
11229	23760	36816	5.72	7.0E-62	-62 AI208681.1	EST HUMAN	qg56a04.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1839150 3' similar to TR:O15103 O15103 HYPOTHETICAL 27.3 KD PROTEIN .;
3029	1		1.6	6.0E-62	8.0E-62 U09410.1	Į.	Human zinc finger protein ZNF131 mRNA, partial cds
3431	16039		4.97	6.0E-62	11418255 NT	Z	Homo sapiens CGI-56 protein (CGI-56), mRNA
7621	<u> </u>	33011	3.43	6.0E-62	6.0E-62 AI762801.1	T_HUMAN	wi04d02x1 NCL CGAP_CL1 Homo saplens cDNA clone IMAGE:2389251 3'
7621			3.43	6.0E-62	-62 AI762801.1	EST_HUMAN	wi04d02.x1 NCI_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:2389251 3'
8030	20212		0.75	6.0E-62	AW 501124.1	T_HUMAN	UI-HF-BP0p-ait-d-09-0-UI.r1 NIH_MGC_51 Homo sapiens cDNA clone IMAGE:3072833 51
8200		33654	1.35	6.0E-62	11431139		Homo sapiens CGI-18 protein (LOC51008), mRNA
9276	21802		3	6.0E-62	-62 AW814393.1	EST_HUMAN	MR3-ST0203-130100-025-e09 ST0203 Homo sapiens cDNA
2	13074	52569	1.99	5.0E-62	-62 AI950528.1	EST_HUMAN	wx51e07.x1 NCI_CGAP_Lu28 Homo sapiens cDNA clone IMAGE:2547204 3' similar to SW:GG95_HUMAN Q08379 GOLGIN-95; contains element MER22 repetitive element;

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Single Exon Probes Expressed in Fetal Liver	Top Hit Descriptor	Homo sapiens Xq pseudoautosomal region; segment 1/2	Homo sapiens Xq pseudoautosomal region; segment 1/2	Human xanthine dehydrogenase/oxidase mRNA, complete cds	Human xanthine dehydrogenase/oxidase mRNA, complete cds	Homo sapiens ryanodine receptor 3 (RYR3) mRNA	zw78e09.s1 Soares_testis_NHT Homo septens cDNA clone IMAGE:782344 3' similar to SW:NRDC_RAT P47245 NARDILYSIN;	Г	Homo sapiens ryanodine receptor 3 (RYR3) mRNA	fh07g09.x1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2961616 5'		Homo sapiens muscle specific gene (M9), mRNA	au71d03.y1 Schneider fetal brain 00004 Homo saplens cDNa clone IMAGE:2781701 5' similar to gb:M37104 ATP SYNTHASE COUPLING FACTOR 6, MITOCHONDRIAL PRECURSOR (HUMAN);	au71403.y1 Schneider fetal brain 00004 Homo saplens cDNA clone IMAGE:2781701 5' similar to gb:M37104 ATP SYNTHASE COUPLING FACTOR 6, MITOCHONDRIAL PRECURSOR (HUMAN);	au71d03.yl Schneider fetal brain 00004 Homo saplens cDNa clone IMAGE:2781701 5' similar to gb:M37104 ATP SYNTHASE COUPLING FACTOR 6, MITOCHONDRIAL PRECURSOR (HUMAN);	au71403.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2781701 5' similar to gb:M37104 ATP SYNTHASE COUPLING FACTOR 6, MITOCHONDRIAL PRECURSOR (HUMAN);	EST182043 Jurkat T-cells V Homo sapiens cDNA 5' end	wf12b08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2350359 3' similar to gb:X57138_rna1 HISTONE H2B.2 (HUMAN);	w/12b08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2350359 3' similar to gb:X57138_rna1 HISTONE H2B.2 (HUMAN);	Homo sapiens keratin 18 (KRT18) mRNA	Homo sapiens solute carrier family 13 (sodium-dependent dicarboxylate transporter), member 2 (SLC13A2) mRNA	Homo sapiens ubiquitin specific protease 9, X chromosome (Drosophila fat facets related) (USP9X), mRNA	Homo sapiens phosphoribosyl pyrophosphate synthetase 2 (PRPS2), mRNA	Homo sapiens eukaryotic translation initiation factor 2B, subunit 2 (beta, 39kD) (EIF2B2), mRNA	Homo sapiens eukaryotic translation initiation factor 2B, subunit 2 (beta, 39kD) (EIF2B2), mRNA	Homo sapiens 26S protessome-associated pad1 homolog (POH1), mRNA
Exon Probe	Top Hit Database Source	FZ	LN	LN FN	TN	L	EST HUMAN	EST HUMAN	FZ	EST_HUMAN	11425574 NT	F	EST HUMAN	EST_HUMAN	EST HUMAN	EST HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	NT FN	F	LN	١N	LN.	N	Ł
Single	Top Hit Acession No.	5.0E-62 AJ271735.1	5.0E-62 AJ271735.1	5.0E-62 U39487.1	5.0E-62 U39487.1	4506758 NT	5.0E-62 AA431093.1	5.0E-62 AW905887.1	4506758 NT	AW 410		11425574 NT	4.0E-62 AW 161479.1	4.0E-62 AW161479.1	E-62 AW 161479.1	E-62 AW161479.1	E-62 AA311281.1	E-62 AI827900.1	4.0E-62 AI827900.1	4557887 NT	4506978 NT	11420654 NT	11421041 NT	7657057 NT		11429973 NT
	Most Similar (Top) Hit BLAST E Value	5.0E-62	5.0E-62	5.0E-62	5.0E-62	5.0E-62	5.0E-62	5.0E-62	5.0E-62	5.0E-62	5.0E-62	5.0E-62	4.0E-62	4.0E-62	4.0E-62	4.0E-62	4.0E-62	4.0E-62	4.0E-62	4.0E-82	4.0E-82	4.0E-62	4.0E-62	4.0E-62	4.0E-62	4.0E-62
	Expression Signal	3	3	0.87	. 0.87	2.52	2.23	0.95	0.64	5.85	2.54	2.54	4.05	4.05	3.94	3.94	1.01	1.7	1.7	7.95	1.79	2.58	1.86	2.5	2.5	0.95
	ORF SEQ ID NO:	27589	27590	27755	27756	28546	29449		33941	34911	36693	36694	26003	28004	26003	26004		27636	27637		31445	31829	32609			33562
	SEQ ID NO:	15018	15018	15188	15188	16073	17006	17239	21024	21962	23852	23652	13488	13488	13488	13488	14103	15062	15062	16054	18698	19041	19754	20142		20653
	Probe SEQ ID NO:	2451	2451	2626	2626	3466	4421	4857	8485	9436	11144	11144	873	873	874	874	1511	2498	2498	3446	6081	6439	7223	7630	7630	8112

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					,		
Probe SEQ ID NO:	SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
8780	21319	34243	5.44	4.0E-62	-62 AB033089.1	NT	Homo sepiens mRNA for KIAA1263 protein, partial cds
10890			2.18	4.0E-62	-62 278766.1	NT	H.saplens flow-sorted chromosome 6 HindlII fragment, SC6pA16D3
10890	1_	36430	2.18	4.0E-62	-62 Z78766.1	NT	H.sapiens flow-sorted chromosome 6 HindlII fragment, SC6pA16D3
11148	1		2.05	4.0E-62	-62 AW023559.1	EST_HUMAN	df56g04.y1 Morton Fetal Cochlea Homo sapiens cDNA clone IMAGE:2487751 5
12003	L		1.89	4.0E-62		LN	Homo sapiens non-histone chromosome protein 2 (S. cerevisiae) like 1 (NHP2L1), mRNA
12420	L	30887	-	4.0E-62		LN	Homo sapiens cadherin EGF LAG seven-pass G-type receptor 1 (CELSR1), mRNA
12475	L			4.0E-82	11417862 NT	NT	Homo sapiens calcineurin binding protein 1 (КіАА0330), mRNA
12475	l		15	4.0E-62	11417862 NT	LN	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12528	24642	30898		4.0E-62	11430460 NT	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
78	12755	25236		3.0E-62	4557794 NT	NT	Homo sapiens neurofibromin 2 (bilateral acoustic neuroma) (NF2) mRNA
3082	ı	28169		3.0E-62	-62 AB040909.1	NT	Homo sapiens mRNA for KIAA1476 protein, partial cds
3082	1			3.0E-62		NT.	Homo sapiens mRNA for KIAA1476 protein, partial cds
3761				3.0E-62		N	Human cyclophilin-related processed pseudogene
	┖						we33f04 x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2299903 3' similar to contains THR.t2
8477		33932	3.96		-62 AI632733.1	EST_HUMAN	THR repetitive element ;
1274	13870		2.31	2.0E-62	2.0E-62 AL163284.2	L	Homo sapiens chromosome 21 segment HS21C084
8709	ı			2.0E-62	2.0E-62 BF329911.1	EST_HUMAN	RC0-BN0284-300500-031-e05 BN0284 Homo saplens cDNA
8709	L	34171		2.0E-62	2.0E-62 BF329911.1	EST_HUMAN	RC0-BN0284-300500-031-e05 BN0284 Homo seplens cDNA
	L.						Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3
10078			3.84		2.0E-62 AF224669.1	NT	(UBE2D3) genes, complete cds
11537	23985		19.58		2.0E-62 BF330676.1	EST_HUMAN	QV4-BT0257-081199-017-e03 BT0257 Homo sapiens cDNA
1082	13687		1.74	L	1.0E-62 AF248540.1	NT	Homo sapiens intersectin 2 (SH3D1B) mRNA, complete cds
1592	ĺ	28717	9.15	1.0	E-62 L78810.1	ΙNΤ	Homo sapiens ADP/ATP carrier protein (ANT-2) gene, complete cds
	ĺ						ar70e11.r1 Soares_NhHMPu_S1 Homo sapiens cDNA clone IMAGE:1047404 5' similar to WP:K01H12.1
1834					1.0E-62 AA625207.1	ES HOMAN	CEDS403)
2939	15555				1.0E-62 AL039044.1	EST_HUMAN	DKFZp566F104_r1 566 (synonym: hikdz) Homo sapiens cDNA clone DKFZp566F104 5
4625	17208	29658	1.48		8923201 NT	TN	Homo sapiens hypothetical protein FLJ20212 (FLJ20212), mRNA
	1		72.0		4 OE 92 44148822 4	EST HIMAN	208b08.r1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:491511 5' similar to ISW-C561_BOVIN P10897 CYTOCHROME B561
3 3	Т				4 0E-82 A A AQUUE 4	EST HIMAN	ab05c02 s1 Strategene fetal retina 937202 Homo saplens cDNA clone IMAGE:839908 3
8 3	1		3		4 OF 40 A A 703079 4	NAMI H TOO	2780710 s.1 Scares fetal heart NbHH19W Home saplens cDNA clone IMAGE:409771 3
285	L	Į			77177010	- LOL	THE PROPERTY OF THE PROPERTY O
7189	- 1			<u>-</u>	1.0E-62 AA722878.1	ESI HUMAN	ADORTOUS COMINS THE HEALT CONTINUE OF THE SECOND COME INVOICE TO SECOND COME INVOICE TO SECOND SECON
8692				- 1.0	AA28005	ESI HUMAN	SEGGET IN THE COLD I HOME SEGMENTS COLD INCIDENCE TO COLD INCIDENC
8888	3 21528	3 34455	1.64	1.0E-62	7662289 NT	NT	Homo sepiens KIAA0763 gene product (KIAA0763), mRNA

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WO 01/57277

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
2848	13877	56399	11.17	3.0E-63	6005983 NT		Homo sapiens zinc finger protein 144 (Mel-18) (ZNF144), mRNA
0089	i .	L	29.68	3.0E-63	11545810 NT		Homo sapiens hepatocellular carcinoma antigen gene 520 (LOC63928), mRNA
9622	ı	35086	77.0	3.0E-63	BE876158.1	EST_HUMAN	601485656F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3888253 5
9822	1		0.77	3.0E-63	1	EST_HUMAN	601485656F1 NIH_MGC_69 Homo sepiens cDNA clone IMAGE:3888253 5
205	1		3.47	2.0E-63		ΝΤ	Human DNA topoisomerase I mRNA, partial cds
212	ı		4.1	2.0E-63	4885226 NT	LN	Homo sapiens eyes absent (Drosophila) homolog 2 (EYA2), mRNA
	ı		č	200	TIM LCGT331		Homo sapiens glutamate-cysteine ligase (gamma-glutamylcysteine synthetase), catalytic (72.8kD) (GLCLC) mRNA
22		l	9.61	200.2	430704		Home canions Down sundrame candidate region 1 (DSCR1) mRNA
829				2.05-63	2.0E-63 / 65/042 N I	2 12	Hamp septiens Down synatomic carbonates of the complete complete cds
1612				2.05-63		Z	TOTIO SEPTEM STATE THE PROPERTY OF STATE OF STAT
1612	14205		3.37	2.0E-63		Ę	Homo sapiens RHCE mKNA for Kh blood CE group anigen polypeptide, complete cos
1803	14393	26938	1.06	2.0E-63	-63 BE410739.1	EST_HUMAN	601301627F1 NIH_MGC_21 Hamo sapiens cDNA clone IMAGE:3636103 5
90,70	1	77,070	1 23	2 05 83	2 NE.433 A 1883 2081 1	FST HUMAN	wj54b02.x1 NCI_CGAP_Lu19 Homo saplens cDNA clone IMAGE:2406603 3' similar to gb:M57609 GLl3 PROTEIN (HUMAN):
7 70		ŀ	3				
3192	15804		-	2.0E-63	4502166 NT	덛	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
3324	15934		1.7	2.0E-63	2.0E-63 AF109718.1	NT	Homo sapiens chromosome 3 subteloment region
3976	16574	29044	2.08	2.0E-63	2.0E-63 L39891.1	NT	Homo sapiens polycystic kidney disease-associated protein (PKD1) gene, complete cds
4990	17564	30009	1.18	2.0E-63	2.0E-63 AF111167.2	Ę	Homo sapiens jun dimerization protein gene, partial cds; cfos gene, complete cds; and unknown gene
	L						Homo sapiens similar to ectonucleotide pyrophosphatase/phosphodiesterase 3 (H. sapiens) (LOC63214),
5467	24742	30420		2.0E-63	11419429 NT	N	mRNA
6045	18664	31404		2.0E-63	BF373541.1	- 1	QV1-FT0170-040700-265-c05 F10170 Homo sapiens cDNA
6045	18664		2.51	2.0E-63	BF3735	HUMAN	QV4-FT0170-040700-265-c05 F10170 Homo sapiens cDNA
6333	18939	31715	1.04	2.0E-63	11421940 NT	L	Homo sapiens protein kinase, cAMP-dependent, regulatory, type II, beta (PRKARZB), mRNA
6333	<u> </u>			2.0E-63	11421940 NT	TN	Homo sapiens protein kinase, cAMP-dependent, regulatory, type II, beta (PRKAR2B), mRNA
							Human germline T-cell receptor beta chain Dopamine-beta-hydroxylase-like, TRY1, TRY2, TRY3.
							ICKBVZ/SIP, ICKBVZZSIAZNII, ICKBV3SIAII, ICKBV9SZA2PI, ICKBV3SZA1N4I, ICKBV3SZA1N4I, ICKBV3SZA1N4I, ICKBV3SZA1N4I, ICKBV3SZA1N4I, ICKBV3SZA2PI, ICKBV3SZA2PI, ICKBV3SZA1N4I, ICKBV3SZA1NAI, ICKBV3SZANAI, ICKBVASZANAI, ICKBVASZAN
6803	19394	32210	1.62		E-63 U 66059.1	Z	TCRBV13S9/13S>
884	L		0.87	2.0E-63	2.0E-63 AB032369.1	TN	Homo sapiens MIST mRNA, partial cds
88 44	ŀ	32250	0.87	2.0E-63	2.0E-63 AB032369.1	NT	Homo sapiens MIST mRNA, partial cds
7135		L	1.43			ΙN	Homo sapiens Carbonic anhydrase-related protein 10 (LOC56934), mRNA
7135			1.43	2.0E-63	8910365 NT	NT	Homo sapiens Carbonic anhydrase-related protein 10 (LOC56934), mRNA

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Charle Laborate Liver Tropped Liver	And the second of the second o	33158 0.89	33927 2.91 2.0E-63 AL163210.2 NT	34449 1,12 2.0E-63 11420949 NT	34450 1.12 2.0E-63 11420949 NT	35331 0.9 2.0E-63 AL163218.2 NT	36170 22.7 2.0E-63 N78945.1 EST HUMAN	36198 2.83 2.0E-63 AF099810.1 NT	36199 2.83 2.0E-63 AF099810.1 INT	30702 6.92 2.0E-63 11418185 NT	30864 1.4 2.0E-63 AB011399.1 NT	.29460] 3.52 1.0E-63 F08485.1 EST HUMAN	29461 3.52 1.0E-63 F08485.1 EST_HUMAN	30602 1.32 1.0E-63 AJ271736.1 NT	31293 1.38 1.0E-63 AW 582266.1 EST_HUMAN	2.21 1.0E-63[AL163247.2 NT	17.03	31489 1.06 9.0E-64 AW 401433.1 EST_HUMAN	33259 4.35 9.0E-64 AI478186.1 EST_HUMAN	13.09 8.0E-64 BE280796.1 EST_HUMAN	31668 3.17 8.0E-64 BE885755.1 EST_HUMAN	1.48 8.0E-64 11418177 NT	3.56 8.0E-64 T60651.1 EST_HUMAN	0.84 7.0E-84 BE394321.1 EST_HUMAN	29868 2.85 7.0E-64 4507490 NT	29869 2.85	33172 0.88 7.0E-64 4506786 NT	35418 4.54 7.0E-64 Y07848.1 NT	70090	20094 2.4 0.0E-04 Alb51892.1 EST_HUMAN	350 28895 2.4 6.0E-64 AI651992.1 EST HUMAN GLUCURONIDASE PRECURSOR (HUMAN);	28236 4.46 6.0E-64 AW026445.1 EST_HUMAN	28237 4.46 6.0E-84 AW028445.1 EST_HUMAN
										30702								Ì											70890	\$6007			
	Exon SEQ ID NO:				21522		23157	23184	Ш	24851		_ 1	ŀ	- 1		_	_	18737		- [_				_	ı	20274		14350			15770	
	Probe SEQ ID NO:	775	847(8984	8984	985,	10625	10652	10652	11886	12623	4434	4434	5555	28	8408	12581	6122	7806	1084	6289	11694	11752	3582	4838	4838	7766	8946	1780	3	1760	3156	3156

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ſ		Ţ	Γ	Γ	Γ	Γ	Γ	Γ	Γ	Γ	Т	T	T	Τ	Т	Т	Т	Γ	Γ	Π	Г	Γ	Γ	Г	Г	Τ	Γ	Г	Г	Γ	Г	abla	Γ	П
	Top Hit Descriptor	Homo sapiens MCP-1 gene and enhancer region	Homo saplens MCP-1 gene and enhancer region	Homo sapiens protein kinase C beta-II type (PRKCB1) mRNA, complete cds	Homo sapiens mesenchyme homeo box 1 (MEOX1), mRNA	Homo sapiens mesenchyme homeo box 1 (MEOX1), mRNA	Homo sapiens acetyl-CoA synthetase (LOC55902), mRNA	Homo saplens progressive ankylosis-like protein (ANK) mRNA, complete cds	trkC (human, brain, mRNA, 2715 nt)	Homo sapiens stromal antigen 3 (STAG3), mRNA	Homo sapiens stromal antigen 3 (STAG3), mRNA	wv13e03.x1 NCI_CGAP_Bm23 Homo sapiens cDNA clone IMAGE:2529436 3'	wv13e03.x1 NCI_CGAP_Bm23 Homo sapiens cDNA clone IMAGE:2529436 3'	Homo sepiens interleukin 10 receptor, beta (IL10RB), mRNA	Homo sapiens chromosome 21 unknown mRNA	Homo sepiens chromosome 21 unknown mRNA	Homo sepiens mRNA for KIAA0903 protein, partial cds	Homo sapiens phosphoglucomutase-related protein (PGMRP) gene, complete cds	Homo sapiens phosphoglucomulase-related protein (PGMRP) gene, complete cds	Human ((3)mbt protein homolog mRNA, complete cds	Homo sapiens KIAA0618 gene product (KIAA0618), mRNA	Homo sapiens KIAA0618 gene product (KIAA0618), mRNA	Homo sapiens putative transcription factor CR53 (CR53) mRNA, partial cds	Homo sepiens mRNA for KIAA0903 protein, partial cds	RC3-ST0197-120200-015-a03 ST0197 Hamo sapiens cDNA	RC3-ST0197-120200-015-403 ST0197 Homo sapiens cDNA	C18895 Human placenta cDNA (TFujiwara) Homo sapiens cDNA clone GEN-569E02 5	601589565F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943577 5'	AV711714 DCA Homo sapiens cDNA clone DCAAMC01 5'	AV711714 DCA Homo sapiens cDNA clone DCAAMC01 5'	H.sepiens isoform 1 gene for L-type calcium channel, exon 28	RC8-FN0019-290600-011-G11 FN0019 Homo sapiens cDNA	Homo saplens golgi metrix protein GM130 (GOLGA2) mRNA, complete cds	Homo saplens golgi matrix protein GM130 (GOLGA2) mRNA, complete cds
	Top Hit Database Source	LN	FZ	Ę	Ę	LΝ	۲	TN	ZI	ZI	N	EST HUMAN	EST_HUMAN	Z	LN	FZ	FZ	LΝ	LN	LN	LN	LN	LN	NT	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	NT	EST_HUMAN	LX.	LΝ
3.6	Top Hit Acesslon No.	.0E-64 Y18933.1	.0E-64 Y18933.1	3.0E-64 M13975.1	11525879 NT	11525879 NT	11420555 NT	.0E-84 AF274753.1	.0E-64 S76475.1	11420197 NT	11420197 NT	6.0E-64 AW026445.1	6.0E-64 AW026445.1	11526198 NT	5.0E-64 AF231919.1	.0E-64 AF231919.1	5.0E-64 AB020710.1	.0E-64 L40933.1			7662205 NT	7662205 NT				3.1		3.0E-64 BE794381.1	.0E-64 AV711714.1	.0E-64 AV711714.1				.0E-64 AF248953.1
	Most Similar (Top) Hit BLAST E Value	6.0E-84	8.0E-64	6.0E-64	6.0E-64	6.0E-84	6.0E-84	6.0E-84	6.0E-64	6.0E-84	6.0E-64	6.0E-84	6.0E-64	8.0E-94	5.0E-64	5.0E-84/	5.0E-64	5.0E-64	5.0E-64 L	5.0E-64 U89358.1	5.0E-64	5.0E-84	5.0E-84 /	5.0E-64 /	4.0E-64	4.0E-64	3.0E-64 C18895.1	3.0E-64 E	3.0E-64 /	3.0E-64 /	3.0E-64 Z	3.0E-64	3.0E-64 /	3.0E-84/
	Expression Signal	3.71	3.71	5.8	2.45	2.45	8.24	2	2.23	7.87	78.7	1.62	1.64	2.45	3.09	3.09	0.95	2.55	2.55	1.52	3.5	3.5	7.79	0.68	3.91	3.91	3.14	0.76	2.57	2.57	1.53	3.11	1.83	1.83
	ORF SEQ ID NO:	31149	31150	31169	32670		34727	34883	35099	38194	36195			31008	25979		28504			26886		26658		29220	38235			28384		28571				33865
	SEQ ID NO:	18430	18430	18447	19814		21778	21834		23181	23181				13469	13469	13977	14059	14059	14339	14120				23222	23222	14814	15904	16096	16096				20942
	Probe SEQ ID NO:	5805	2802	5823	7286	7286	9230	9425	9634	10649	10849	10896	10896	11903	853	853	1383	1467	1467	1749	2853	2853	4032	4181	10692	10692	2239	3293	3491	3491	8232	6819	8402	8402

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-				,		
Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
20972	72 33885	4.49		3.0E-64 BE206521.1	EST_HUMAN	bb72h12.71 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3047975 5' similer to gb:L08069 DNAJ PROTEIN HOMOLOG 2 (HUMAN);
8432 20972	33886	4.49		3.0E-84 BE206521.1	EST_HUMAN	bb72h12.y1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3047975 5' similar to gb;L08069 DNAJ PROTEIN HOMOLOG 2 (HUMAN);
				3.0E-64 AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
21862		1.23			Į.	Homo sapiens chromosome 21 segment HS21C046
					EST_HUMAN	EST389493 MAGE resequences, MAGO Homo sapiens cDNA
					EST_HUMAN	EST389493 MAGE resequences, MAGO Homo sapiens cDNA
11118 23627	38669			3.0E-64 AL163246.2	Į,	Homo sapiens chromosome 21 segment HS21C046
					IN	Homo sapiens chromosome 21 segment HS21C046
11539 2398					LN	Homo sapiens chromosome 21 segment HS210027
7 13730				2.0E-64 AA608940.1	EST_HUMAN	af09d08.s1 Soares_lestis_NHT Homo sapiens cDNA clone IMAGE:1031151 3'
1441 14034				IN 1022574	IN	Homo sapiens el F4E-like cap-binding protein (4EHP) mRNA
16120	•				MALI ILI FOD	wo87b01.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2462281 3' similar to contains element
2570 15133	L	36 1		20E-84 61 183248 2	TO TO	Home canions chromosome 24 seament HS21 MAR
	201102			ı	114	Trans deplets characters and adjust 102 flows
				Τ		House earlies of training velocotife francomings 2 mitochoods in inches and materials and materials of CCTO)
15787	37 28259			4504068 NT	Ę	nuclear gene encoding mitochardrial protein, mRNA
1	53 28916	89.0	1	Γ	EST_HUMAN	EST370215 MAGE resequences, MAGE Homo sapiens cDNA
					EST_HUMAN	EST370215 MAGE resequences, MAGE Homo saplens cDNA
					EST_HUMAN	AU124387 NT2RM2 Homo sapiens cDNA clone NT2RM2002113 5
					TN	Homo sapiens anglopoietin 4 (ANG4) mRNA, partial cds
					EST_HUMAN	802123474F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4280395 5
19301	32105				EST_HUMAN	oz29b03.x1 Soares_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:1676717.3
6802 1939					TN	H.sapiens dopamine receptor D5 pseudogene 1, partial cds
			١.	11434008 NT	TN	Homo saplens lymphocyte cytosolic protein 1 (L-plastin) (LCP1), mRNA
3 21142	34056			11434008 NT	LN	Homo sapiens lymphocyte cytosolic protein 1 (L-plastin) (LCP1), mRNA
9157 2169					EST HUMAN	AU132570 NT2RP4 Homo sapiens cDNA clone NT2RP4000109 5'
	36 35364				EST_HUMAN	EST04286 Fetal brain, Stratagene (cat#936206) Homo sapiens cDNA clone HFBDS88
9 22386					EST_HUMAN	EST04286 Fetal brain, Stratagene (cat#936206) Homo sapiens cDNA clone HFBDS88
		2.38			EST HUMAN	602042882F1 NCI_CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4180556 5'
			١,	Г		wn81b06.x1 NCI_CGAP_Ut1 Homo sapiens cDNA clone IMAGE:2452211 3'
10929 23447	17 36469			2.0E-64 AI922911.1	1	wn81b06.x1 NCI_CGAP_Ut1 Hamo sapiens cDNA clone IMAGE:2452211 3'
	I		i		ł	

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Top Hit Descriptor	PM2-SN0018-220300-002-e12 SN0018 Homo sapiens cDNA	Homo sapiens period (Drosophila) homolog 3 (PER3), mRNA	CHR220101 Chromosome 22 exon Homo sapiens cDNA clone C22_132 5	Homo sapiens chromosome 21 unknown mRNA	au80c01.xf Schneider fetal brain 00004 Homo sapiens cDNa clone IMAGE:2519136 3' similar to gb:L21696_cds1 PROTHYMOSIN ALPHA (HUMAN);contains element MSR1 repetitive element ;	Hamo saplens synaptojanin 1 (SYNJ1), mRNA	Homo saplens transcription factor IGHM enhancer 3, JM11 protein, JM4 protein, JM5 protein, T54 protein,	JM10 protein, A4 differentiation-dependent protein, triple LIM domain protein 6, and synaptophysin genes, complete cds; and L-type calcium channel a>	Homo saplens TRIAD3 mRNA, partial cds	Homo sapiens TRIAD3 mRNA, partial cds	Homo sapiens hypothetical protein FLJ11026 (FLJ11026), mRNA	zk53f08.s1 Scares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:486567 3'	Homo sapiens chromosome 21 segment HS21C046	H.sapiens DNA for endogenous retroviral like element	H. saplens DNA for endogenous retroviral like element	QV4-BT0257-081199-017-e03 BT0257 Homo sapiens cDNA	au58h07.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2519005 3' similar to SW:RL21_HUMAN P46778 60S RIBOSOMAL PROTEIN L21.;	QV2-BT0635-240400-162-c02 BT0635 Homo sapiens cDNA	AV721898 HTB Homo sapiens cDNA clone HTBBZC08 5'	nj86d10.s1 NCI_CGAP_Pr11 Homo sapiens cDNA clone IMAGE:999379 similer to gb:K03002 60S RIBOSOMAL PROTEIN L32 (HUMAN);	x07b09.x1 NCi_CGAP_Co21 Homo sapiens cDNA clone IMAGE:2583545 3' similar to TR:Q63306 Q63306	CONG IN LEASTERNED REFE 111VE DNA CON MINIOS / ORF 3. CONBINS L. 1.02 L. 1 (Spective General). Zw53b6.51 Soares total fetus. Nb2hF8 9w Homo sapiens cDNA clone IMAGE:773747 3.	zw53b06.s1 Soares total fetus Nb2HF8 9w Homo saplens cDNA clone IMAGE:773747 3'	q18h05x1 NCI_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:1750425 3'	qf18h05.x1 NCI_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:1750425 3'	801340485F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3682877 5	UI-H-Bi11-efg-d-10-0-UI,s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2722626 3'	Homo saplens chromosome 21 segment HS21C010
Top Hit Database Source	THUMAN		EST_HUMAN CH		est HUMAN gb		Ĭ	K 8		H.		EST_HUMAN ZK	NT	NT H		EST_HUMAN O	EST_HUMAN SI	EST_HUMAN Q	EST_HUMAN A	EST_HUMAN RI		EST HUMAN EN	Т	Г	EST_HUMAN of	HUMAN	T HUMAN	Ĭ.
Top Hit Acession No.	Г	8567387		1.0E-64 AF231919.1	1.0E-64 AI929419.1	07334		1.0E-64 AF196779.1			8922829 NT		1.2			9.0E-65 BF330676.1	8.0E-65 A1929244.1	Γ	6.0E-65 AV721898.1			6.0E-65 AW 083252.1 6.0E-65 AA427878.1		6.0E-65 AI085314.1		П	6.0E-65 AW 206752.1	
Most Similar (Top) Hit BLAST E Value	2.0E-64	2.0E-64	2.0E-64 H55162.1	1.0E-64	1.0E-64	1.0E-84		1.0E-64	1.0E-64	1.0E-64	1.0E-64	1.0E-64	1.0E-64	9.0E-65	9.0E-65	9.0E-65	8.0E-65	7.0E-65	6.0E-65	6.0E-65	i d	6.0E-65	8.0E-85	6.0E-85	6.0E-65	6.0E-65	6.0E-65	6.0E-65
Expression Signal	1.78	1.5	2.44	1.64	9.93	0.62		5.94	1.14	1.14	0.67	0.84	1.37	1.02	1.02	35.61	14.63	2.08	1.68	5.21		4.18	4.18	1,04	1.04	12.35	1.73	4.4
ORF SEQ ID NO:	36663	31034		25421				28648		28723		35454		27462	27463		36897		26209			34140	L	L	34472		36683	
Exon SEQ ID NO:	23622	[_	24487	12938	14405	L		16165	16247	16247	16566	22471	24178	14887	14887	23861	23835	L	L	14550		21220	21479	L	L	23276		23821
Probe SEQ ID NO:	11112	11828	12285	279	1815	3045		3561	3844	3844	3968	9266	11798	2316	2315	11410	11383	10059	1094	1966		88 88 148	8941	9004	9004	10752	11135	11369

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Single Exon Probes Expressed in Fetal Liver	Top Hit Descriptor	Homo sapiens KE03 protein mRNA, partial cds	Homo sapiens KIAA0156 gene product (KIAA0156), mRNA	Homo sapiens KIAA0156 gene product (KIAA0156), mRNA	Homo sapiens hPAD-colony10 mRNA for peptidylarginine deiminase type I, complete cds	Homo sapiens ubiquitin specific protease 13 (isopeptidase T-3) (USP13) mRNA	Homo sapiens ubiquitin specific protease 13 (isopeptidase T-3) (USP13) mRNA	Multiple sclerosis associated retrovirus polyprotein (pol) mRNA, partial cds	DKFZp761G108_r1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp761G108 5'	qm48e01.x1 Scares_placenta_8tc9weeks_2NbHP8tc9W Homo sapiens cDNA clone IMAGE:1891800 3'	qm46e01.x1 Soares_placenta_8to8weeks_2NbHP8to9W Homo sapiens cDNA clone IMAGE:1891800 3'	Homo sapiens fragile X mental retardation, autosomal homolog 1 (FXR1), mRNA	Homo sapiens ribosomal protein L34 (RPL34) mRNA	hu25e04.x1 NCI_CGAP_Mel15 Homo sapiens cDNA clone IMAGE:31711023'	hu25e04.x1 NCI_CGAP_Mel15 Homo sapiens cDNA clone IMAGE:3171102 3'	Homo sapiens mRNA for KIAA1287 protein, partial cds	Homo sapiens mRNA for KIAA1287 protein, partial cds	Human clabindin 27 gene, exons 10 and 11, and L1 and Alu repeats	Homo sapiens hypothetical protein FLJ22087 (FLJ22087), mRNA	Homo sapiens nel (chicken)-like 2 (NELL2), mRNA	Homo sapiens nel (chicken)-like 2 (NELL2), mRNA	Homo sapiens Janus kinase 2 (a protein tyrosine kinase) (JAK2), mRNA	Homo sapiens WEE1 gene for protein kinase and partial ZNF143 gene for zinc finger transcription fector	AV738764 CB Homo sapiens cDNA clone CBCCBE05 5'	Homo sapiens PR01474 mRNA, complete cds	Homo sapiens fragile X mental retardation, autosomal homolog 1 (FXR1), mRNA	Hamo sapiens pre-B-cell colony-enhancing factor (PBEF) mRNA	Homo sapiens pre-B-cell colony-enhancing factor (PBEF) mRNA	H. sapiens HZF9 mRNA for zinc finger protein	Homo sapiens immunoglobin superfamily, member 3 (IGSF3) mRNA, and translated products	ov23f03.s1 Soares_tests_NHT Homo sapiens cDNA clone IMAGE:1638173 3' similar to contains element MSR1 repetitive element;
Exon Probes	Top Hit Database Source	N						LN	EST_HUMAN	EST_HUMAN	EST_HUMAN			т	EST HUMAN		Ę	N					Ź	EST HUMAN							EST_HUMAN
Single	Top Hit Acession No.	-65 AF064604.1	7881951 NT	7881951 NT	5.0E-65 AB033768.1	4507848 NT	4507848 NT		-65 AL120419.1	4.0E-65 AI266468.1		4.0E-65 4826735 NT	4506636 NT	4.0E-65 BE221489.1		-65 AB033093.1	-65 AB033093.1	-65 M19879.1	11545780 NT	5453765 NT	5453765 NT	11429127 NT		4.0E-65 AV738764.1		4826735 NT	5031976 NT	5031976 NT	-65 X78932.1	4504626 NT	-65 A1000692.1
	Most Similar (Top) Hit BLAST E Value	5.0E-65	5.0E-85	5.0E-65	5.0E-65	5.0E-65	5.0E-85	5.0E-85	4.0E-85	4.0E-65	4.0E-65	4.0E-65	4.0E-65	4.0E-65	4.0E-65	4.0E-65	4.0E-85	4.0E-65	4.0E-65	4.0E-65	4.0E-85	4.0E-65	4.0E-65	4.0E-65	4.0E-65	4.0E-85	3.0E-65	3.0E-65	3.0E-65	3.0E-85	3.0E-65
	Expression Signal	0.75	1.8	1.8	0.87	2.39	2.39	66.0	2.15	1.3	1.3	1.52	17.23	1.14	1.14	4.44	4.44	0.85	2.39	0.81	0.81	0.8	2.55	1.93	3.39	1.41	2.51	2.35	11.57	0.98	-
	ORF SEQ ID NO:	25762	26518	26519	27349	28385	28386	35850	25354	25894	25895	26232	28662	27516	27517	31682	31683	32550	32858			34539		36369	36522	26232	25261	25281		26729	27007
	SEQ ID NO:	13282	13991	13991	1		15905	22858	12868	13394	13394	13720	14125			18910		19703	19799		20326	J	22967	23354			12778			14197	14449
	Probe SEQ ID NO:	629	1397	1397	2200	3294	3294	10364	202	775	775	1117	1533	2374	2374	6303	6303	7171	7271	7783	7783	9072	10473	10833	10977	12124	101	102	1275	1605	1861

Page 337 of 526 Table 4 Single Exon Probes Expressed in Fetal Liver

-		_	_	_		_	_	_	_	_	_	•	_	_	_	_	_	_	_	_	_	_		_	_	_	-	-	_		_	,
	Top Hit Descriptor	Homo sapiens mRNA for KIAA0235 protein, partial cds	Homo saplens laminin, beta 1 (LAMB1), mRNA	ovZ3f03.s1 Soeres_testis_NHT Homo sapiens cDNA clone IMAGE:1638173 3' similar to contains element MSR1 repetitive element;	Horno sapiens rab6 GTPase activating protein (GAP and centrosome-associated) (GAPCENA), mRNA	601479686F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3882405 5	2w65a06.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:781042 5'	602155062F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE.4295966 5	601190883F1 NIH_MGC_7 Homo saplens cDNA clone IMAGE:3534741 5'	602134359F1 NIH_MGC_81 Homo saplens cDNA clone IMAGE:4289295 5	Homo sapiens mRNA for FLJ00056 protein, partial cds	Homo sapiens mRNA for FLJ00056 protein, partial cds	EST178755 Colon carcinoma (HCC) cell line Homo sapiens cDNA 5' end similar to similar to endogenous	reducings	601854033F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4073769 5	601763488F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:4026501 5	Homo sapiens putative Rab5 GDP/GTP exchange factor homologue (RABEX5), mRNA	Homo sapiens mRNA for KIAA1513 protein, partial cds	hz24a09.x1 NCI_CGAP_GC8 Homo sapiens cDNA clone IMAGE:3208888 3'	Homo sapiens glypican 4 (GPC4) mRNA	Homo sapiens glypican 4 (GPC4) mRNA	wx09c09.x1 NCI_CGAP_Gas4 Homo sapiens cDNA clone IMAGE.2543152 3'	wx09c09.x1 NCI_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2543152 3'	qh88h07.x1 Sogres, NFL_T_GBC_S1 Homo saplens cDNA clone IMAGE:1854109.3' similar to TR:Q07823 Q07823 MAC30 PROTEIN :	QV2-ST0298-140200-042-f12 ST0298 Homo sapiens cDNA	QV2-ST0298-140200-042-112 ST0298 Homo sapiens cDNA	801566124F1 NIH_MGC_21 Homo sapiens cDNA clane IMAGE:3841012 5'	601566124F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3841012 5	AU141295 THYRO1 Homo saplens cDNA clone THYRO1000356 5'	AU141285 THYRO1 Homo sapiens cDNA clone THYRO1000358 5	602126239F1 NIH_MGC_56 Homo seplens cDNA clone IMAGE:4283313 5'	AU129040 NT2RP2 Homo saplens cDNA clone NT2RP2004714 5'
	Top Hit Database Source	TN	ΝΤ	EST_HUMAN	FN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	ΝΤ	۲	144111111111111111111111111111111111111	ESI HOMAN	EST_HUMAN	EST_HUMAN	NT	۲N	EST_HUMAN	NT.	٦	EST_HUMAN	EST_HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN
,	Top Hit Acession No.	3.0E-65 D87078.2	4504950 NT	0E-65 A1000692.1	6912385 NT	BE787366.1	AA430006.1	2.0E-65 BF680294.1	BE263373.1	BF576922.1	AK024463.1	.0E-65 AK024463.1	7 700000	UE-65 AA3U7904.1	.0E-65 BF246086.1	0E-65 BF125544.1	7657495 NT	0E-65 AB040946.1	0E-65 BE466681.1	4504082 NT	4504082 NT	0E-65 AW029340.1	0E-65 AW029340.1	0E-65 A 243738.1	0E-65 AW820481.1	0E-65 AW820481.1	0E-65 BE732118.1	0E-65 BE732118.1	0E-65 AU141295.1	0E-65 AU141295.1	.0E-65 BF698707.1	.0E-65 AU129040.1
	Most Similar (Top) Hit BLAST E Value	3.0E-65	3.0E-65	3.0E-65	3.0E-65	3.0E-65	3.0E-65	2.0E-85	2.0E-65	2.0E-65	2.0E-65	2.0E-65	100	Z.UE-63	2.0E-65	1.0E-65	1.0E-65	1.0E-65	1.0E-65	1.0E-65	1.0E-65	1.0E-65	1.0E-65	1.0E-65	1.0E-65	1.0E-65	1.0E-65	1.0E-65	1.0E-65	+	-	-
	Expression Signal	0.8	0.96	1.18	1.36	1.44	13.23		5.63	25.57	1.21	1.21	0	0.38	2.26	0.76	1.4	0.95	0.94	1.85	1.85	2.39	2.39	0.74	4.11	4.11	0.58	0.58	2.05	2.05	2.42	2.86
	ORF SEQ ID NO:		28403	28849	82782													27236					29318	30775		L	L					34410
	Exon SEQ ID NO:	15635	15925	16384	17335	22476	23005	16058	19253	19718	21318	21318		7414/	24832	12770	13195	14665	16027	16666	16666	16871	16871	18295	20737	20737	20763	20763	20802	20802		21488
	Probe SEQ ID NO:	3019	3315	3784	4754	9981	11267	3451	6657	7186	8778	8778	03.277	8	12241	46	584	2084	3419	4070	4070	4285	4285	5668	8186	818	8222	8222	1928	8261	8774	8950

Page 338 of 526 Table 4 Single Exon Probes Expressed in Fetal Liver

					28.10	באנווו ומכמי	Ongo Exciti totas Expressad III atai Eval
Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acesslon No.	Top Hit Database Source	Top Hit Descriptor
9950		34411		1.0E-65		EST_HUMAN	AU129040 NT2RP2 Homo sepiens cDNA clone NT2RP2004714 5
8961	21499		2.54	1.0E-65	E-65 11431994 NT	LN LN	Homo sapiens inositol 1,4,5-triphosphate receptor, type 1 (ITPR1), mRNA
9398		34770	60'5	1.0E-85	-65 Al191716.1	EST HUMAN	qd58e02.x1 Soeres_tests_NHT Homo sapiens cDNA clone IMAGE:1733450 3' similar to gb:M29581 ZINC FINGER PROTEIN 8 (HUMAN):contains MER19.t1 MER19 repositive element:
088				1.0	-65 AU153793.1	EST HUMAN	AU153793 NT2RP3 Homo sapiens cDNA clone NT2RP3004018 3'
10203	22698		0.65		1.0E-65 AA069559.1	EST_HUMAN	2775a04.11 Soares_pineal_gland_N3HPG Homo sapiens cDNA clone IMAGE:382734 5
10463				1.0	-65 AB037832.1	NT	Homo sapiens mRNA for KIAA1411 protein, partial cds
10529			3.58	1.0E-65	-85 M28167.1	N L	Human platelet factor 4 varation 1 (PF4var1) gene, complete cds
10656	23188	36204	22.3	1.0E-65	4508660 NT	LN	Homo sapiens ribosomal protein L7a (RPL7A) mRNA
11010				1.0E-65	-65 BF698707.1	EST_HUMAN	602128239F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4283313 5'
11088	23800	36638	52.6	1.05-65	-65 A1621017 1	NAMILH TRA	1s76a06.x1 NCI_CGAP_GC8 Homo sapiens cDNA clone INAGE:2237170 3' similar to gb:L15533_rna1 PANCREATITIS ASSOCIATED PROTEIN 1 PRECTIPSOR /HIMANY
11799	L			1.0E-85	11418041 NT	NT	Homo sapiens TNF-inducible protein CG12-1 (CG12-1), mRNA
11896	١.	31005	5.17	1.0E-65		NT	Homo sapiens cadherin EGF LAG seven-pass G-type receptor 1 (CELSR1), mRNA
75	12753			99-30.6	-66 AL 160311.1	L	Novel human gane mapping to chomosome 22
75	12753	25233		99-30'6	-66 AL160311.1	N	Novel human gene mapping to chomosome 22
1398				9.0E-68	5031980 NT	N	Homo sapiens 26S proteasome-associated pad1 homolog (POH1) mRNA
1398		26521	1.54		5031980 NT	NT	Homo sapiens 26S proteasome-associated pad1 homolog (POH1) mRNA
1531	14123		4.45		9.0E-66 M87299.1	IN	Human transposon-like element, partial
4802		29830			-	F	Novel human gene mapping to chomosome X
4801					AA424304.1	EST HUMAN	zv90c05.r1 Sogres_NhHMPu_S1 Homo sapiens cDNA clone IMAGE:767048 5
11225	23756		1.78		7.0E-66 BE064410.1	EST_HUMAN	RC4-BT0311-141199-011-N06:BT0311 Homo sapiens cDNA
4455	17041	. 20483	111	805.20		NAMIN TOR	wn57h07.x1 NCI_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2449597 3' similar to WP:F15G9.4A
	1						wn57h07.x1 NCI_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2448597.3' similar to WP:F15G9.4A
4455	17041	29484	1.11	6.0E-86	-66 AI924653.1	EST_HUMAN	CE18595;
4455	12041	20405	11.1			NVFN (T) EOD	wn57h07.x1 NC_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2449597 3' similar to WP:F15G9.4A
0270					9.0E-00 MISETUDE:	NOW IT LOS	BASS HISTORY AND LINE LINES HAVE A CONTINUE TO THE LINES HAVE
11030		38587		8 05 88		TO TO TO	HIGH TOWN TOWN TOWN I TOWN THE SEPTEMBER COMP.
3				20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5		ECT LIMAN	DECARDANG MINACA DA MONORINE DA LA COMPANIA DEL COMPANIA DE LA COMPANIA DE LA COMPANIA DE LA COMPANIA DEL COMPANIA DE LA COMPANIA DEL COMPANIA DEL COMPANIA DE LA COMPANIA DE LA COMPANIA DELA COMPANIA DEL COMPANIA DEL COMPANIA DEL COMPANIA DEL COMPANIA DE
	1	1			200410.1	TOTAL TOTAL	
5278	17840	30206	0.57	5.05	-66 BE898644.1	EST HUMAN	601661582F1 NIH MGC 9 Home capiens cDNA clone IMAGE:3951791 5'
	1	۱		20.0	00000	NVINOL IS	C 1921 I TO 1921
8718	21/35	340//			IN/2025/II	Z	Home sablens tryfod normone receptor binding protein (AIB3), mRNA

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Top Hit Descriptor	Mus musculus fragile X mental retardation syndrome 1 homolog (Fmr1), mRNA	RC1-NN0063-100500-022-a02 NN0063 Homo sapiens cDNA	H.sapiens DNA for endogenous retroviral like element	Homo sapiens germ-line DNA upstream of Jkappa locus	Human endogenous retrovirus, complete genome	Homo sapiens methylene tetrahydrofolate dehydrogenase (NAD+ dependent), methenylietrahydrofolate cyclohydrolase (MTHFD2), mRNA	QV1-DT0069-110200-067-g10 DT0069 Homo sapiens cDNA	EST377546 MAGE resequences, MAGI Homo sapiens cDNA	Homo sapiens cAMP-regulated guenine nucleatide exchange factor I (cAMP-GEFI) mRNA, complete cds	Homo sapiens methylene tetrahydrofolate dehydrogenase (NAD+ dependent), methenyltetrahydrofolate cyclohydrolase (MTHFD2), mRNA	Homo sapiens hypothetical protein FLJ20118 (FLJ20118), mRNA	Human endogenous retrovirus pHE.1 (ERV9)	Homo sapiens solute carrier family 25 (mitochondrial carrier; adenine nucleotide translocator), member 5 (SLC25A5), nuclear gene encoding mitochondrial protein, mRNA	Homo sapiens solute carrier family 25 (mitochondrial carrier, adenine nucleotide translocator), member 5 (SLC25A5), nuclear gene encoding mitochondrial protein, mRNA	y27g12.r1 Soares_multiple_sclerosis_ZNbHMSP Homo septens cDNA clone IMAGE:284328 5' similar to SW:H281_TIGCA P35068 HISTONE H28.1/H28.2 [2] PIR:B56612;	yzz7g12,r1 Soares, multiple, sclerosis, 2NbHMSP Homo sapiens cDNA clone IMAGE;284328 5' similar to SW:H281_T1GCA P35068 HISTONE H28.1/H28.2, [2] PIR:B56812;	yzZ7g12.r1 Soeres_multiple_sclerosis_ZNbHMSP Homo sepiens cDNA clone IMAGE:284329 5' similar to SW:H281_T1GCA P35068 HISTONE H28.1/H28.2. [2] PIR:B56612 ;	Homo sepiens TGF(beta)-induced transcription factor 2 (TGIF2), mRNA	Homo sapiens KIAA0649 gene product (KIAA0649), mRNA	Homo sapiens mRNA for KIAA0892 protein, partial cds	Homo sapiens NiPSNAP, C. elegans, homolog 1 (NIPSNAP1), mRNA	Homo sapiens NiPSNAP, C. elegans, homolog 1 (NIPSNAP1), mRNA	Homo sapiens mRNA for FLJ00045 protein, partial cds	Homo sapiens KIAA0433 protein (KIAA0433), mRNA	Homo sapiens protocadherin beta 1 (PCDH-beta1), mRNA:	Homo sepiens molybdenum cofector biosysthesis protein E (MCBPE) mRNA, complete cds
Top Hit Database Source		EST_HUMAN	LZ.	FZ			HUMAN	EST_HUMAN	LΝ			N	LN	Ę	T HUMAN	EST_HUMAN	EST_HUMAN	N	Z	N	NT	NT	NT	LV.	NT	NT
Top Hit Acession No.	TN 918618	E-66 AW897798.1	X89211.1	4.0E-86 AJ223364.1	9635487 NT	11428643 NT	AW839119.1	4.0E-66 AW965473.1	E-86 U78168.1	11428643 NT	11421638 NT	E-66 X57147.1	4502098 NT	4502098 NT	0E-66 N55323.1	E-66 N55323.1	3.0E-66 N55323.1	11141880 NT	7662223 NT	3.0E-66 AB020699.1	11417946 NT	11417946 NT	AK024453.1	3.0E-66 11417118 NT	7019480 NT	AF155659.1
Most Similar (Top) Hit BLAST E Value	4.0E-86	4.0E-66	4.0E-66 X89211.1	4.0E-86	4.0E-86	4.0E-66	4.0E-66	4.0E-66	4.0E-86	4.0E-86	4.0E-88	4.0E-66	3.0E-66	3.0E-86	3.0E-86	3.0E-86	3.0E-66	3.0E-86	3.0E-88	J,)		3.0E-66			3.0E-86
Expression Signal	1.13	0.87	1.64	2.35	6.76	3.33	6.0	4.62	7.41	1.05	6.44	96.0	11.5	11.5	-	1	-	3.43	68.8	6.0	2.07	2.07	0.59			0.92
ORF SEQ ID NO:	25947	26906	27466			31072		30470	32564		L	33532	28801	26602	l		27175	<u>.</u>		L						35908
Exan SEQ ID NO:	13440	14361		15077	17473	18365			19717	18365	1_	L	14065	14065				Ι.	ì	L			21970	1 1	1	22909
Probe SEQ ID NO:	823	1771	2319	2513	4898	5739	5918	6940	7185	7625	8022	8076	1473	1473	2026	2026	2028	2732	3151	5658	5946	5948	9444	9635	9885	10415

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Process Earn Oper SEC Exement Massi Schind Chapter C			_	_	_				_			_				_					_												
Exon ORF SEQ Expression Top Hit Acession Database Source Source Source Acritical Top Hit Acession	EXPRESSED IN Fetal LIVER	Top Hit Descriptor	Homo sapiens protein phosphatase 2. regulatory subunit R (RSR) alpha is down (DDD DDRA) - DNA	Homo sapiens Misshapen/NK-related kinase (MINK) mRNA	Homo sapiens Misshapen/NIK-related kinase (MINK), mRNA	Homo sapiens origin recognition complex, subunit 5 (yeast homolog)-like (ORC5L) mRNA, and translated products	Homo sapiens origin recognition complex, subunit 5 (yeast homolog)-like (ORC5L) mRNA, and translated products	Homo sablens chromosome 21 segment HS21C101	H.sapiens pseudogene for the low affinity II8 recentor	Homo sapiens hypothetical protein FLJ20309 (FLJ20309) mRNA	Novel human gene mapping to chomosome 1	Homo sepiens sodium/calcium exchanger isoform NaCa3 (NCX1) mRNA complains cds	Homo sapiens HLA-B gene for human jeucocyte antigen B	Homo sapiens HLA-B gene for human leucocyte antigen B	EST380930 MAGE resequences, MAGJ Homo saplens cDNA	EST380930 MAGE resequences. MAGJ Homo sapiens cDNA	1959c02.r1 Soares_multiple_sclerosis_2NbHMSP Homo saciens cDNA clone IMAGE 277828.5	Homo sepiens G-2 and S-phase expressed 1 (GTSE1), mRNA	AV717817 DCB Hamo sepiens cDNA clone DCBADC07 5'	AV717817 DCB Homo sapiens cDNA clone DCBADC07 5'	AV717817 DCB Homo sapiens cDNA clone DCBADC07 5'	AV717817 DCB Homo saplens cDNA clone DCBADC07 5'	602152966F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4294151 5	IL2-NT0101-280700-118-E04 NT0101 Homo saplens cDNA	IL 2-NT0101-280700-116-E04 NT0101 Hamo sepiens cDNA	RC5-BN0193-010900-034-G06 BN0193 Homo sapiens cDNA	8880e04.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:827282.3	2857e12.r1 Scares retina N2b4HR Homo sapiens cDNA clone IMAGE 363118 5	AV748749 NPC Homo sapiens cDNA clone NPCBVA05 5'	AV748749 NPC Homo sapiens cDNA clone NPCBVA05 5'	ho47h02.x1 Soares_NFL_T_GBC_S1 Hamo sapiens cDNA clone IMAGE:3040563 3'	Homo sapiens jun dimerization protein gene, parttal ccs; cros gene, complete cds; and unknown cene	
Exon No: CAPE SEQ Expression Signal Top) Hit Top Hit A No. Top Hit A No. SEQ ID NO: Signal Sequents Top) Hit Top Hit A No. No. 12735 25203 1.34 2.0E-66 7 12735 25204 1.34 2.0E-66 7 12676 25132 1.21 2.0E-66 AF106390. 12676 25132 1.21 2.0E-66 AF106390. 12676 25132 1.21 2.0E-66 AF106390. 14452 27011 1.73 2.0E-66 AF106390. 1676 28658 0.57 2.0E-66 AF106390. 1677 28096 0.57 2.0E-66 AF106390. 17341 29789 16.35 2.0E-66 AF106390. 17341 29789 16.35 2.0E-66 AF490. 18602 31337 0.8 2.0E-66 AF490. 18603 31336 0.8 2.0E-66 AF490. 18536 28010 1.66 2.0E-66	Exon Propes	Top Hit Database Source	FZ	N	LZ LZ	Į.	Ę	NT.	N _T	N	Z	Z	N	TN	EST_HUMAN	EST_HUMAN	EST_HUMAN	Z	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST HUMAN	EST_HUMAN	EST_HUMAN		Г			
Exam ORF SEQ Expression MM SEQ ID ID NO: Signal ID NO: 12736 25203 1,34 12736 25204 1,34 12736 2503 1,21 12676 25133 1,21 14452 27041 1,73 15618 28096 1,57 1676 28659 0,57 1677 28899 0,72 1674 28689 0,72 1674 28689 0,72 1674 28689 0,72 1674 28689 0,72 1674 28689 0,72 1674 28699 0,57 17341 29789 16.35 17341 29789 16.35 18602 3133 0,8 18603 3424 2.24 25067 1.65 1658 2801 1.65 1659 2801 3.57 1650	alfille	Top Hit Acession No.				4505524	4505524	AL163301.2	X65859.1	8923290	AL117233.1	4F108389.1	4J133267.2	4J133267.2				11418318	AV717817.1	4V717817.1	4V717817.1	4V717817.1	3F673088.1	3E765232.1	3E765232.1	3F328623.1	\A668858.1	4A018828.1	1V748749.1	1/748749.1	3E044595.1		
Exam SEQ ID NO: Sign NO: 123836 36898 12735 25204 12676 2533 12676 2533 14452 28096 16731 29789 16731 29789 16731 29789 16734 29789 16734 29789 16734 29789 16734 29789 16734 29789 16536 28010 16536 28010 16536 28010 16536 28010 16536 28010 16536 28010 16536 28010 16536 28010 16536 28010 16536 28010 16536 28010 16536 28010 16536 28010 16536 28010 16536 28010 16536 28035 233857 22768 35756 22768 35756 22768 35756 22768 35757 22768 35756 22768 35757 22768 35757 22768 35757 22768 35757 22768 35757 22768 35757 22768 35757 22768 35757 22768 35757 22768 35757 23342 36357		Most Similar (Top) Hit BLAST E Value	3.0E-66	2.0E-66	2.0E-66	2.0E-66	2.0E-66	2.0E-66	2.0E-66	2.0E-66	2.0E-86	2.0E-66	2.0E-66	2.0E-68	2.0E-56	2.0E-66	2.0E-66	2.0E-68	1.0E-66		1.0E-66	1.0E-66	1.0E-66	1.0E-66	1.0E-66	1.0E-66	1.0E-66	1.0E-66 /	1.0E-66	1.0E-66		1.0E-66	
Exan SEQ ID ID NO: 23836 12735 12676 12676 14452 15676 16478 16771 17341 16602 21320 25057 15536		Expression Signal	9.34	1.34	1.34	1.21	1.21	1.73	1.55	76.0	0.72	0.57	16.35	16.35	9.0	8.0	2.24	1.8	1.65	1.65	3.57	3.57	5.49	0.68	0.68	0.95	1.6	0.74	0.75	0.75	0.51	1.96	
		ORF SEQ ID NO:										29184	29788				34244					28011	30663	31307	31308			34809	35756	35757	36011	36357	
Probe SEQ ID NO: 11384 1447 4447 4477 12132 2892 5982 5982 5982 12132 2919 2919 2919 2919 2919 2919 29		Exon SEQ ID NO:	23836			12676	12676	14452	15618	16176	16428	16731	17341	17341	18602	18602	21320	25057	15536	15536	15536	15536	18214	18574	18574	19516	20935	21861	22768	22768	23003	23342	
		Probe SEQ ID NO:	11384	55	55	447	447	1866	3002	3572	3828	4139	4760	4760	2982	2885	8781	12132	2919	2819	474	4474	5583	5952	5952	7018	8395	9347	10273	10273	10509	10821	

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Top Hit Descriptor	yn02d11.r1 Soeres adult brain N2b4HB55Y Homo sapiens cDNA clone IMAGF-167253 5'	o 28c05.x5 NC _CGAP_Kid3 Homo sapiens cDNA clone INAGE:1493288 3' similar to SW:Z33A_HUMAN Q06730 ZINC FINGER PROTEIN 33A	RC0-HT0934-150900-028-c03 HT0934 Homo sapiens cDNA	nw08a01.s1 NCI_CGAP_SS1 Homo sapiens cDNA clone IMAGE:1238472.3' similar to TR:O10385 O10385 PRO-POIDI TPASE POI VPROTEIN	EST37903 Embryo, 9 week Homo sabiens cDNA 5' end	MR3-SN0066-040500-008-f01 SN0066 Homo sepiens cDNA	Homo saplens chromosome 21 segment HS21C079	hr81f05.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3134913 3' similar to SW.RHOP_MOUSE Q61085 GTP-RHO BINDING PROTEIN 1	om18b07.s1 Sogres NFL T GBC S1 Homo sablens cDNA clone IMAGE 1541365 31	hw16g09.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3183136 3' similar to WP:F23H11.9 CE09617	QV4-ST0234-181199-037-f05 ST0234 Homo sapiens cDNA	Homo sapiens double stranded RNA activated protein kinase (PKR) gene, exons 2a 2 3 and 4	ba72g05.y1 NIH_MGC_20 Homo sapiens cDNA clane INAGE:2805976 5' similar to TR:094892 094892 KIAA0798 PROTEIN.	ba72g05.y1 NIH_MGC_20 Hamo saplens cDNA clone IMAGE:2805976 5' similar to TR:O94892 O94892 KIAA0798 PROTEIN	Homo sapiens KRAB zinc finger protein ZFQR mRNA, complete cds	Homo saplens developmentally regulated GTP-binding protein 1 (DRG1), mRNA	Zu91g01.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:745392 3'	Homo sapiens chromosome 21 segment HS21C100	Novel human gene mapping to chamosome 13	601875351F1 NIH_MGC_55 Homo saplens cDNA clone IMAGE:4091893 5	Homo sapiens mRNA for NADPH-cytochrome P-450 reductase, complete cds	Homo sapiens mRNA for NADPH-cytochrome P-450 reductase, complete cds	EST38850 Embryo, 9 week Homo sapiens cDNA 5' end similar to similar to cereballin	EST38850 Embryo, 9 week Homo sapiens cDNA 5' end similar to similar to cerebellin	RC4-BT0568-170100-011-c07 BT0566 Homo sapiens cDNA	RC4-BT0568-170100-011-c07 BT0566 Homo sapiens cDNA	AV731333 HTF Homo sapiens cDNA clone HTFARD03 5'	UI-H-BI2-ahn-Φ-10-0-UI.s1 NCI_CGAP_Sub4 Homo sapiens cDNA clone IMAGE:2727283 3'
Top Hit Database Source	EST_HUMAN	EST HUMAN	T	EST HIMAN	Т		г	EST_HUMAN	Г		Г	LZ L	EST_HUMAN	EST HUMAN			EST_HUMAN	LN	INT	EST_HUMAN	NT	NT	EST_HUMAN	EST_HUMAN	П	П	EST_HUMAN /	EST_HUMAN
Top Hit Acession No.	E-67 R90819.1	DE-67 AI733032.1	0E-67 BF357321.1	4.0E-67 AA714294.1	3.0E-67 AA333768.1	L		E-67 BF196068.1	E-67 AA927874.1	E-67 BE348354.1	E-67 AW816405.1	E-67 AF167460.1	E-67 BE303037.1		2.0E-67 AF309561.1	4758795 NT				3F240758.1	2.0E-67 AB051763.1		2.0E-67 AA334609.1	4A334609.1			2.0E-67 AV731333.1	4W 293624.1
Most Similar (Top) Hit BLAST E Value	4.0E-67	4.0E-67	4.0E-67	4.0E-67	3.0E-87	3.0E-67	3.0E-67	3.0E-67	3.0E-67	2.0E-67	2.0E-67	2.0E-67	2.0E-67	2.0E-67	2.0E-67	2.0E-67	2.0E-67	2.0E-67	2.0E-67	2.0E-67	2.0E-67	2.0E-67	2.0E-67	2.0E-67	2.0E-67	2.0E-67	2.0E-67	2.0E-67
Expression Signal	1.18	0.68	1.3	1.92	5.7	3.38	0.93	1.17	22.61	1.74	4.99	1.64	1.5	1.5	2.84	0.95	4.46	2.78	0.83	5.18	2.25	2.25	0.96	96.0	1.09	1.09	1.24	1.19
ORF SEQ ID NO:	26494	33413			25765	29832		33573		25346	26010		27069	27070	27570	27610	28599	29131	31605	31649	31827	31828	33952	33953	34381	34382	34890	35089
Exen SEQ ID NO:	13967	20506	Ш	23458		17382	17409		23647		13492	13747	14512	14512	14995	15042	16119	16670	18831		- [- 1	ı	21032	21465	21465	21943	22125
Probe SEQ ID NO:	1373	7964	8322	10942	2839	4804	4831	8122	11139	201	878	1144	1928	1928	2428	. 2475	3514	4074	6222	6273	6438	6438	8493	8483	8927	8927	9486	9625

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Probe SEQ ID NO:	Exon SEO ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
10781	23305	36313	1.67		DE-67 BF685788.1	EST HUMAN	802140470F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4301705 5
10934	L			2.0E-67	11436448 NT	LN	Homo saplens KIAA0985 protein (KIAA0985), mRNA
11107	乚	36659		2.0E-87	BE295714.1	EST_HUMAN	601175762F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531038 5
11330				2.0E-67		EST HUMAN	PM2-TN0103-040900-001-c02 TN0103 Homo sapiens cDNA
12034	L			2.0E-67	188	Ę	Homo sapiens thyroid autoantigen 70kD (Ku antigen) (G22P1), mRNA
12347	24528	30825		2.0E-67	2.0E-67 11417877 NT	N _T	Homo sapiens gamma-glutamyltransferase 1 (GGT1), mRNA
274	12831	25418	3.31	1.0E-67	4502166 NT	FZ	Homo saplens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
737	1			1.0E-87	AA702794.1	EST_HUMAN	zi90b04.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:448015.3"
2220	14795	27368		8.0E-68	DE-68 BE870732.1	EST_HUMAN	601448558F1 NIH_MGC_65 Hamo sapiens cDNA clane IMAGE:3852254 5
3837	16535	29001	6.37	8.0E-68	DE-68 AA209456.1	EST_HUMAN	zq82h10.r1 Stratagene hNT neuron (#937233) Homo sapiens cDNA clone IMAGE:848163 5' similar to SW:SAV_SULAC Q07590 SAV PROTEIN.;
3937	16535	29002	5.37	8.0E-88	DE-68 AA209456.1	EST HUMAN	zq82h10.r1 Stratagene hNT neuron (#937233) Homo saplens cDNA clone IMAGE:848163 6' similar to SW:SAV_SULAC Q07590 SAV PROTEIN.;
8045	1			7.0E-68	AI810505.1	EST_HUMAN	wb89e03.x1 NCI_CGAP_Pr28 Homo sapiens cDNA clone IMAGE:2312860 3'
10346	ĺ	35836		6.0E-68	11422086 NT	FZ	Homo sapiens brefeldin A-Inhibited guanine nucleotide-exchange protein 2 (BIG2), mRNA
12349	24530		3.32	6.0E-68		EST_HUMAN	601452067F1 NIH_MGC_68 Hamo sapiens cDNA clone IMAGE:3855761 5'
835		25960	0.67	Ш		ΙΝ	Homo sapiens chromosome 21 unknown mRNA
835			0.67			LN	Homo sapiens chromosome 21 unknown mRNA
852						TN	Homo sapiens chranosome 21 unknown mRNA
852			4.54	l		LN	Homo sapiens chromosome 21 unknown mRNA
2808	15360	27927				NT	Homo sapiens chromosome 21 unknown mRNA
3181		28266			5.0E-68 AB037852.1	LN	Homo sapiens mRNA for KIAA1431 protein, partial cds
4260					4826967 NT	L	Homo sapiens retinoblastoma-binding protein 2 (RBBP2) mRNA
4590		29618		5.0E-68	AL157645.1	EST_HUMAN	DKFZp547D207_r1 547 (synonym: hfbr1) Hamo saplens cDNA clone DKFZp547D207 5
5111			8.62		P04408	SWISSPROT	GLYCERALDEHYDE 3-PHOSPHATE DEHYDROGENASE, LIVER
6118	18734		92'0		DE-68 AF157063.1	LN	Homo sapiens sedlin (SEDL) gene, exon 4
6870		32437	6.01	4		NT	Homo sapiens serine carboxypeptidase 1 precursor protein (HSCP1), mRNA
6870	19804	32438		4.0E-68	1	NT	Homo sapiens serine carboxypeptidase 1 precursor protein (HSCP1), mRNA
7674		33073		4.0E-68	7661663 NT	LΝ	Hamo sepiens DKF2P588L0724 pratein (DKF2P588L0724), mRNA
8970	21508	34429			0E-68 D63479.2	LNT	Homo seplens mRNA for KIAA0145 protein, partial cds
8970			4)			₽Z	Homo sapiens mRNA for KIAA0145 protein, partial cds
9106	21642			4	AB040918.1	LN	Homo sapiens mRNA for KIAA1485 protein, partial cds
10882	Ш	36420	5.14		4506282 NT	LN	Homo saplens protein tyrosine phosphatase type IVA, member 1 (PTP4A1) mRNA

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Single Exon Probes Expressed in Fetal Liver	Top Hit Descriptor	Homo sapiens protein tyrosine phosphatase type IVA, member 1 (PTP4A1) mRNA	Homo sapiens SEC14 (S. cerevisiae)-like 2 (SEC14L2), mRNA	Mus musculus G-protein coupled receptor GPR73 (Gpr73) mRNA, complete cds	qt38h02.x1 Scares_fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE:1950291 3' similar to contains THR.t2 THR repetitive element;	HSPD18178 HM3 Homo sapiens cDNA clone s3000023D09	QV1-DT0072-010200-056-h06 DT0072 Homo sapiens cDNA	Cricetulus longicaudatus mRNA for EF-1 alpha, complete cds	7f15f02.x1 NCI_CGAP_CLL1 Homo saplens cDNA clone IMAGE:3294747.3' similar to TR:080828 O80828 HYPOTHETICAL 88.8 KD PROTEIN.;	Homo sapiens gene for activin receptor type IIB, complete cds	yg38g04.s1 Soares Infant brain 1NIB Homo sapiens cDNA clone IMAGE:34896 3'	601458514F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3862034 5'	FORMIN 4 (LIMB DEFORMITY PROTEIN)	yz78d07.r1 Soares_multiple_sclerosis_2NbHMSP Homo sepiens cDNA clone IMAGE:289165 5'	601437367F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3922192 5	UI-H-BID-8am-b-05-0-UI.s1 NCI_CGAP_Sub1 Homo sapiens cDNA clone IMAGE:2709824 3'	Homo sapiens meningioma (disrupted in balanced translocation) 1 (MN1), mRNA	QV4-ST0234-181199-037-f05 ST0234 Homo sapiens cDNA	Homo sapiens mRNA for KIAA0577 protein, complete cds	Homo sapiens mRNA for KIAA0577 protein, complete cds	UI-H-BI3-alk-f-01-0-UI.s1 NCI_CGAP_Sub5 Homo sapiens cDNA clone IMAGE:27372723	al47g12.s1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:14605183'	601177002F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3532344 5	Homo sapiens cell recognition molecule Caspr2 (KIAA0868), mRNA	Homo sapiens similar to ectonuclectide pyrophosphatase/phosphodiesterase 3 (H. sapiens) (LOC63214),	MKNA Hama corlore absenbalisetasses 78 / DDE781 DNA	Home captures broadcase of CD (DOCTO) - DOCTO	nono sapens prospriodesta ago (o (CE/O), minno	Hamo sapiens MIP2 suppressor (HSM13) mKNA, complete cds	Homo sapiens myosin iC (MYO1C), mRNA	Human protein kinase C substrate 80K-H (PRKCSH) gene, exon 4-5	Human protein kinase C substrate 80K-H (PRKCSH) gene, exon 4-5	Homo sapiens CGI-76 protein (LOC51632), mRNA
Exon Probes	Top Hit Database Source	NT	۲	NT	EST_HUMAN	EST_HUMAN	EST_HUMAN	TN	EST_HUMAN	Z	EST_HUMAN	EST_HUMAN	SWISSPROT	EST_HUMAN	EST_HUMAN	EST_HUMAN	NT.	EST_HUMAN	NT	TN	EST_HUMAN	EST_HUMAN	EST_HUMAN	NT		Z		Z	IN.	L	Į.	LN	Į.
eibuis	Top Hit Acession No.	4506282 NT	11417966 NT	3.0E-68 AF236082.1	3.0E-68 AI342323.1	3.0E-68 F28784.1	3.0E-68 AW939485.1	2.0E-68 D00522.1	BE675766.1	AB008681.1	R45088.1	2.0E-68 BF035316.1	005859	N78483.1	2.0E-68 BE897376.1		222	1.0E-68 AW816405.1					1.0E-88 BE296032.1	7662349 NT		11419429 NI	l	410008		1433277		U50319.1	11418431 NT
	Most Similar (Top) Hit BLAST E Value	4.0E-68	4.0E-68	3.0E-88	3.0E-68	3.0E-68	3.0E-88	2.0E-88	2.0E-68	2.0E-68	2.0E-68	2.0E-68	2.0E-68	2.0E-68	2.0E-68	2.0E-68	1.0E-68	1.0E-68	1.0E-68	1.0E-68	1.0E-68	1.0E-68	1.0E-88	1.0E-68		10.L	3 10.	1.0E-90	1.0E-68 L/6416.	1.0E-88	1.0E-88	1.0E-68	1.0E-68
	Expression .	5.14	2.91	2.58	6.15	1.77	2.05	27.71	0.78	1.56	8.68	4.81	0.64	0.46	2.11	1.84	0.78	12.22	0.89	0.89	1.12	99.0	0.88	1.51		0.49	3 6	3	3.41	1.72	2.23	2.23	2.1
	ORF SEQ ID NO:	36421	30953	28790		35884			29149	29821		32280	34341	35996			25242	25461	27443	27444	27909	30174	30215	30572		355/3	38075	30573	36314	36625			37036
	SEQ ID NO:			16323	20317	22890	24829	18011	16692	17369	19534	19483	21417	22988	. :	24714	12759	12972		- 1				18157	ŀ	22,580	1	1	-1		- 1	- 1	23965
	Probe SEQ ID NO:	10882	12225	3722	9378	10396	12571	2887	4097	4789	6957	7123	8879	10494	11792	12839	8	318	2294	2294	2785	5178	5233	5525	-	10085	10792	10732	20/82	11072	11179	11179	11517

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-		Τ	Γ	Γ	Τ	Г	Γ		Τ	Γ	Γ	Γ	Τ	Г	Τ	Τ	Т	T	Т	Т	Τ	Γ	Т	Γ	Г		T	T	Т	
טוויטיס באלים האלים של היים היים היים היים היים היים היים היי	Top Hit Descriptor	Horno sapiens CGI-76 protein (LOC51632), mRNA	Homo saplens meningioma (disrupted in balanced translocation) 1 (MN1), mRNA	Homo sapiens ADP-ribosylation factor GTP ase activating protein 1 (ARFGAP1), mRNA	Homo sapiens pre-B-cell colony-enhancing factor (PBEF) mRNA	Homo saplens pre-B-cell colony-enhancing factor (PBEF) mRNA	Homo sapiens 26S proteasome-associated pad1 homolog (POH1) mRNA	Homo sapiens 26S proteasome-associated pad1 homdog (POH1) mRNA	Homo sapiens v-raf murine sarcoma viral oncogene homolog B1 (BRAF) mRNA	Homo sapiens T-cell receptor gamma V1 gene region	AU117241 HEMBA1 Homo sapiens cDNA clone HEMBA1000968 5'	Homo saplens RIBIIR gene (partial), exon 12	Homo sapiens actin-related protein 3-beta (ARP3BETA), mRNA	qe62h01.x1 Soares_fetal 'Ling_NbHL19W Homo sapiens cDNA clone IMAGE:1743601 3' similar to gb:L11566 60S RIBOSOMAL PROTEIN L16 (HUMAN);	qe62h01.x1 Seares_fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE:1743601 3' similar to gb:L11568 60S RIBOSOMAL PROTEIN L18 (HUMAN):	od80a03.s1 NCI_CGAP_GCB1 Homo saplens cDNA clone IMAGE:1372300 3'	wm26h11.x1 NCI_CGAP_Ut4 Hamo sapiens cDNA clone IMAGE.2437125 3'	601344705F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3677641 5'	wh57b08.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2384819 31 similar to TR:055137 055137 ACY1COA THIOESTERASE.	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA	AU119634 HEMBA1 Homo sapiens cDNA clone HEMBA1006283 5'	qe13f05.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:17388813'	601110371F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:3351352 5	Homo sapiens Smad- and Olf-Interacting zinc finger protein mRNA, partial cds	yd08s02.r1 Soares infant brain 1NIB Homo sapiens cDNA clone INAGE:24890 5' similar to SP:A48836 A48836 SPEGF III=EGF REPEAT-CONTAINING FIRROPFILINJ IKE PROTEIN SEA LIPCHIN	Homo sapiens Ivmphatic vessel endothelial hyaluronan receptor 1 (LYVE-1) mRNA	ye48h04.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:121015 5	ye48h04.r1 Soares fetal liver spleen 1NFLS Homo sepiens cDNA clone IMAGE:121015 5	Homo saplens aconitase 2, mitochondrial (ACO2), mRNA
CAULT IOUS	Top Hit Database Source	L	N	12	FZ	TN	LN	ΙN	NT	TN	EST_HUMAN	TN	Z	EST HUMAN	EST HUMAN	EST HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	N.	Ę	EST_HUMAN	EST_HUMAN	EST_HUMAN	NT	EST HUMAN	Į.	EST HUMAN	EST HUMAN	LN
Sign	Top Hit Acession No.	11418431 NT	4505222 NT	11418213 NT	5031976 NT	5031976 NT	5031980 NT	5031980 NT	4757867 NT	9.0E-69 AF057177.1	JE-69 AU117241.1	E-69 AJ237744.1	9966912 NT	E-69 A1192764.1	E-69 A1192764.1	5.0E-69 AA826039.1			4.0E-69 AI764973.1	4557732 NT	4557732 NT			3.0E-69 BE258012.1			5729910			11418185 NT
	Most Similar (Top) Hit BLAST E Value	1.0E-88	1.0E-68	1.0E-68	9.0E-69	9.0E-69	9.0E-69	9.0E-69	9.0E-69	9.0E-69	9.0E-69	8.0E-69	69-30.7	6.0E-89	6.0E-69	5.0E-69/	4.0E-69	4.0E-69	4.0E-69	4.0E-69	4.0E-69	4.0E-89	4.0E-69	3.0E-69	3.0E-69 /	3 0F-69 TR0514 1	3.0E-69	3.0E-69 T96234.1	3.0E-69 T96234.1	3.0E-69
	Expression Signal	2.1	2.37	1.62	13.45	13.45	1.44	1.44	0.69	6.0	11.7	1.56	5.18	22.34	22.34	0.98	1.07	1.56	4.7	2.45	2.45	65.0	2.96	4.92	2.24	1 13	28	0.77	0.61	1.37
	ORF SEQ ID NO:		25242							30356			31878	33254	33255			31283	31384	32139	32140	34309		25577	25739					37141
	Exon SEQ ID NO:	23965	12759	24697	12702			13670	16797	17943	23293	16041	19094	20347	20347	21442	13177	24751	18629	19333	19333	21384	24733	13084	13263	14194	14983	17270	17270	18021
	Probe SEQ ID NO:	11517	12330	12618	ಜ	ಜ	1065	1065	4208	5384	10769	3433	6493	7804	7804	8904	28	5834	6009	6239	6238	8845	12663	409	640	1602	2415	4688	5407	5452
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Single Exon Probes Expressed in Petal Liver	. Top Hit Descriptor	Homo sapiens dNT-2 gene for mitochondrial 5'(3')-deoxyribonucleotidase (dNT-2 gene), exons 1-5	Homo sapiens short chain L-3-hydroxyacyi-CoA dehydrogenase precursor (HADHSC) gene, nuclear gene encoding mitochondrial protein, complete cds	Homo sapiens arm-repeat protein NPRAP/neurojungin (CTNND2) mRNA, partial cds	Homo sapiens TRAF6-binding protein T6BP mRNA, complete cds	UI-H-BI1-acw-g-01-0-UI.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2715840 3'	EST88807 HSC172 cells II Homo sapiens cDNA 5' end similar to similar to ribosomal protein S18	Homo sapiens hypothetical protein FLJ20275 (FLJ20275), mRNA	H.sapiens mRNA for N-acety/glucosamide/beta 1-4)-galactosy/transferase	Human mRNA for calcium-binding protein in macrophages (MRP-14) macrophage migration inhibitory factor (MIF-related protein	Homo sapiens SEC10 (S. cerewisiae Filixe 1 (SEC10L1), mRNA	Homo sapiens ribosomal protein S15a (RPS15A) mRNA	EST88807 HSC172 cells II Homo sapiens cDNA 5' end similar to similar to ribosomal protein S18	Homo sapiens HGC6.2 protein (HGC6.2), mRNA	Homo sapiens KIAA0553 protein gene, complete cds; and alphallb protein gene, partial cds	Homo sapiens KIAA0553 protein gene, complete cds, and alphallb protein gene, partial cds	Homo sapiens KIAA0553 protein gene, complete cds, and alphallb protein gene, partial cds	Homo sapiens KIAA0553 protein gene, complete cds; and alphalib protein gene, partial cds	601109444F1 NIH_MGC_16 Homo sepiens cDNA clone IMAGE:3350074 5	zw71g02.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE.781682 5'	zm29g01.r1 Stratagene pancreas (#937208) Homo sapiens cDNA clone IMAGE:527088 5'	Raftus norvegicus brain specific cortactin-binding protein CBP90 mRNA, partial cds	601301284F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3635781 5'	601675788F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3958532 5'	601675788F1 NIH_MGC_21 Homo saplens cDNA clone IMAGE:3958532 5'	QV0-TT0010-031199-045-c07 TT0010 Homo sapiens cDNA	Homo sapiens KIAA0716 gene product (KIAA0716), mRNA	Homo sepiens KIAA0716 gene product (KIAA0716), mRNA	Homo sapiens mRNA for KIAA1147 protein, partial cds	Homo sapiens mRNA for KIAA1147 protein, partial cds	TCBAP1E2878 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project≖TCBA Homo sapiens cDNA clone TCBAP2678
EXOLI FIODE	Top Hit Database Source	۲	Ä	N	ΤN	EST_HUMAN	EST_HUMAN	Ι	LΝ	Ŀ	L	FZ	EST HUMAN	Z	ΙN	ΙN	LΝ	NT	EST_HUMAN	EST_HUMAN	EST_HUMAN	NT	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	NT	IN	ΙN	NT	EST_HUMAN
eignic	Top Hit Acession No.	3.0E-69 AJ277557.1	3.0E-69 AF095703.1			AW 138646.1	3.0E-69 AA376399.1	8923248			5730036		AA376399.1	11419157 NT				2.0E-69 AF160252.1	2.0E-69 BE257857.1	AA431157.1	2.0E-69 AA114270.1	1.0E-69 AF053768.1	1.0E-69 BE409094.1	1.0E-69 BE902501.1	1.0E-69 BE902501.1	E-69 AW393969.1	7662263 NT	7662263		E-69 AB032973.1	1.0E-69 BE245070.1
	Most Similar (Top) Hit BLAST E Value	3.0E-69	3.0E-69	3.0E-69	3.0E-69	3.0E-69	3.0E-69	3.0E-69	3.0E-69	3.05-69	3.0E-69	3.0E-69	3.0E-69	3.0E-69	2.0E-69	2.0E-69	2.0E-69	2.0E-69	2.0E-69	2.0E-69	2.0E-69	1.0E-69	1.0E-69	1.0E-69	1.0E-69	1.0E-69	1.0E-69	1.0E-69	1.0E-69	1.0E-69	1.0E-69
	Expression Signal	0.99	78.0	1.42	7.75	0.87	1.8	0.5	1.77	8 92	0.55	3.93	12.34	3.86	1.07	1.07	5.07	5.07	1.46	2.88	0.82	1.89	0.58	0.76	0.76	4.38	1.4	1.4	3.33	3.33	5.1
	ORF SEQ ID NO:		32796	32840	32949				34797	34930		36068				25557		25557	27071			26874			31581	32114			32412	32413	35566
	SEQ ID NO:	19628	19932	19973	20073	20854	21242	21445	21848	21978	22241	23058	23249	24185	13062	13062	13062	13062	14513	15487	21028				18811	18311	19642	19642	19583	19583	22572
	Probe SEQ ID NO:	6894	7407	7449	7554	8313	8703	8907	9334	9452	9743	10520	10721	11813	134	134	428	429	1929	2869	8489	1740	5173	6201	6201	6717	8069	8008	6924	6924	10077

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Top Hit Acession Top Hit Descriptor Source Source	OE-69 BE245070.1 EST_HUMAN clone TCBAP2678	0E-69[AB014607.1 NT Homo sapiens mRNA for KIAA0707 protein, partial cds	T_HUMAN	4918 NT	0E-69 BF125887.1 EST_HUMAN 601762802F1 NIH_MGC_20 Homo sepiens cDNA clone IMAGE:4025785 5'		EST_HUMAN	3.1 EST_HUMAN	П		EST_HUMAN	0E-70 AA282855.1 EST_HUMAN	5031688 NT Homo saplens tumor suppressor deleted in oral cencer-related 1 (DOC-1R) mRNA	4757723 NT Homo sapiens adenyate cyclase 3 (ADCY3) mRNA		0E-70[AB032369.1 NT Homo sapiens MIST mRNA, partial cds	AJ0000	11417306 NT	NT	TN	0E-70 M74099.1 NT Human displacement protein (CCAAT) mRNA			0E-70 X59841.1 NT Human PBX3 mRNA	0E-70 AF153715.1 NT Homo sapiens phospholipid scramblase 1 gene, exon 1 and 5' flanking region	11525984 NT Homo sapiens karyopherin beta 2b, transportin (TRN2), mRNA	11525964 NT Homo sapiens karyopherin beta 2b, transportin (TRN2), mRNA	Homo sapiens gludamate-cysteine ligase (gamma-gludamytcysteine synthetase), catalytic (72.8kD) (GLCLC)	4557624 NT		0E-70 AB036429.1 NT Homo sepiens NDST4 mRNA for N-deacetylese/N-sulfotransferase 4, complete cds	11429685 NT	11429685 NT Homo saptens spastic paraplegia 4 (autosomal dominant; spastin) (SPG4), mRNA
	9 BE2450	9 AB0146	9 BF5284	6	9 BF1258	_	9 AI80999	0 AA2303	0 177566	0 AI49780	0 AI49780	0 AA2826	0	0	0 AB0323	0 AB0323	0 AJ0000	0	O AB0377	0 AB0377	0 M74096	0 M74099	0 X59841	0 X59841	0 AF1537	0			0	0 AB0364	0 AB0364	0	
Most Similar (Top) Hit BLAST E Value	1.0E-6	1.0E-6	1.0E-6	1.0E-6	1.0E-6		1.0E-6.	8.0E-7	8.0E-7	7.0E-7	7.	7	7.0E-70	7.0E-70	7.0E-7	7.0E-7	7.0E-7	7.0E-70	7.0E-7	7.0E-7	7.0E-7	7.0E-7	7.0E-7	7.0E-7	7.0E-7	7.0E-70	7.0E-70		7.0E-70	7.0E-7	7.0E-7	7.0E-70	7.0E-70
Expression Signal	5.1	1.41	0.47	14.22	1.61		4.69	1.52	1.81	1.65	1.65	1.64	3.14	4.83	5.56	5.58	3.22	0.67	2.67	2.67	3.59	3.59	3.99	3.99	3.84	2.01	2.01		1.33	0.61	0.61	1.59	1.59
ORF SEQ ID NO:	35567	35659	35799		36768			27513	29493	26993	26994	27115			30782	30783	32321				34114	34115	34555	34556	33194	33223	33224		35038	35686	35687	36492	36493
Exon SEQ ID NO:	22572	22664	22807	23275	24144		24408	15464	17049	14437	14437	14558	14687	16895	18301	18301	19502	20253	20910	20910	21195	21195	21820	21620	20295	20320	20320		22075	22694	22694	23468	23468
Probe SEQ ID NO:	10077	10169	10313	10751	11745		12169	2370	4463	1849	1849	1974	2109	4309	5674	5674	7004	7745	8370	6370	8656	8656	9084	9084	9328	9382	9382		9575	10199	10199	10953	10953

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Probe	Exon	0.0	ı	Most Similar	Single	Exon Probes	Single Exon Probes Expressed in Fetal Liver
SEQ ID NO:	0)	ORF SEQ ID NO:	Expression Signal	(Top) Hit BLAST E Value	Top Hit Acession No.	Database Source	Top Hit Descriptor
11468	23918	36986	2.2	7.0E-70	11528319 NT	Ę	Homo sapiens HIR (histone cell cycle regulation defective, S. cerevisiae) homolog A (HIRA), mRNA
11468	23918	36987	2.2	7.0E-70	11526319 NT	ΤN	Homo sapiens HIR (histone cell cycle regulation defective, S. cerevisiae) homolog A (HIRA), mRNA
904	13518	26036	2	6.0E-70	4502166 NT	E	Homo sapiens amyold beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
2182	14758	27328	1.02	6.0E-70	6.0E-70 M30938.1	N	Human Ku (p70/p80) subunit mRNA, complete cds
2551	15115	27685	1.42	8.0E-70	LN 6686268	F	Homo sapiens CMP-N-acetylneuraminic acid synthase (LOC55907), mRNA
2588	15470	27715	1.68	5.0E-70	7662307 NT	P	Horno sapiens KIAA0792 gene product (KIAA0792), mRNA
2588	15470	27716	1.68	5.0E-70	7662307 NT	N-	Homo sapiens KIAA0792 gene product (KIAA0792), mRNA
11756	24151		3.79	5.0E-70	5.0E-70 BE166034.1	EST_HUMAN	MR3-HT0487-150200-115-e06 HT0487 Homo sapiens cDNA
6851			153.58	4.0E-70	4.0E-70 T06037.1	EST_HUMAN	EST03926 Fetal brain, Stratagene (cat#936206) Homo sapiens cDNA clone HFBDN25
6887				4.0E-70	4.0E-70 AW 793228.1	EST_HUMAN	CM4-UM0003-010300-105-g08 UM0003 Homo sapiens cDNA
6887			0.79	4.0E-70	4.0E-70 AW 793226.1	EST_HUMAN	CM4-UM0003-010300-105-g08 UM0003 Homo sapiens cDNA
1633	14225	26756	1.19	3.0E-70	3.0E-70 BE071796.1	EST_HUMAN	RC0-BT0522-071299-011-a12 BT0522 Homo sapiens cDNA
1633	14225	26757	1.19	3.0E-70	-70 BE071796.1	EST_HUMAN	RC0-BT0522-071299-011-a12 BT0522 Hamo sapiens cONA
6100	18716	31467	6.0	3.0E-70	3.0E-70 AI831975.1	EST_HUMAN	wh90d03.x1 NCI_CGAP_CL1 Homo sapiens cDNA clone IMAGE:2388005 3'
6511	19111	31897	2.36	3.0E-70	3.0E-70 BF685233.1	EST_HUMAN	602141561F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4302806 5'
6511	19111	31898	2.36	3.0E-70	3.0E-70 BF685233.1	EST_HUMAN	602141561F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4302806 5'
41	12720	25181	0.89	2.0E-70	-70 AF012872.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (pi4K230) mRNA, complete cds
718	13339	25826	11.58	2.0E-70	2.0E-70 N42161.1	EST HUMAN	yy07a10.r1 Soares melanocyte 2NbHM Homo sapiens cDNA clone IMACE:270522 5' similar to SW:D3HI_RAT P29266 3-HYDROXYISOBUTYRATE DEHYDROGENASE PRECURSOR;
1	9000	7697	93 44	0.00	00 DE 20	MARKE IN FOR	yy07a10.r1 Soares melanocyte 2NbHM Homo sapiens cDNA clone IMAGE:270522 5' similar to common part process a unnprover painty part province process and process and process and province process and province process and proce
25.			2 44	205.70		EST HIMAN	ANSTABLE NOT COMP Dant Home senions CDNA close IMAGE 2004043 3
1050		26175		2 OF-70	8923869		Homo sapiens hypothetical protein FL120758 (FL120758) mRNA
1226	1	L		2.0E-70	7661983 NT	Į.	Homo sapiens KIAA0193 gene product (KIAA0193), mRNA
1226	l		1.29	2.0E-70	2.0E-70 7661983 NT	Z	Homo sapiens KIAA0193 gene product (KIAA0193), mRNA
1778	14368	26912		2.0E-70	AL163202.2	Z	Hamo sapiens chromosome 21 segment HS21C002
2359	14930		4.22	2.0E-70	AA054010.1	EST HUMAN	#48g04.r1 Soares retina N2b4HR Homo sepiens cDNA clone IMAGE:380214 5' similar to SW:GAG_HTL1A P03345 GAG POLYPROTEIN;
3888	16289	28758	2.21	2.0E-70	2.0E-70 H37988.1	EST HUMAN	yp58b04.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE: 191599 5'
3891				2.0E-70	AL133207.2	Ę	Novel human gene mapping to chomosome X
4123		29172	5.05	2.0E-70	2.0E-70 M69181.1	LV.	Human nonmuscle myosin heavy chain-B (MYH10) mRNA, partial cds

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Exon ORF SEQ (Top) Hit Do Hit Acession Database Most Similar Not. Top Hit Top Hit Acession Not. Top Hit Top Hit Acession Not. Top Hit Top Hit Acession Signal (Top) Hit Top Hit Acession Database Top Hit Top Hit Acession Not. Top Hit Database Top Hit Acession Not. Top Hit Top Hit Acession Not. Top Hit Database Source Source Source Source Source Source Source Source Not. Database Source Source Not. Database Source Source Not. Database Source Not. Database Source Not. Database Source Not. Database Source Not. Database Source Not. Database Source Not. Database Source Not. Database Source Not. Database Source Not. Database Source Not. Database Source Not. Database Source Not. Source Not. Not. Database Not.						,		
18332 30836 8.49 2.0E-70 X72662.1 NT P 18332 30837 8.49 2.0E-70 X72662.1 NT P 1836 31735 1.22 2.0E-70 AF310105.1 NT P 1936 32176 9.77 2.0E-70 AF123074.1 NT P 19365 32176 9.77 2.0E-70 AF123074.1 NT P 19365 32177 9.77 2.0E-70 AF123074.1 NT P 18968 30446 1.64 2.0E-70 AF123074.1 NT P 20401 33827 0.84 2.0E-70 AF12307.1 NT P 20401 33621 0.75 2.0E-70 AF123507.1 NT P 20401 33621 0.75 2.0E-70 AF123503.1 NT P 21332 3487 0.97 2.0E-70 AF033520 NT P 23455 36487 3.48		Exen SEQ ID NO:		Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	
18332 30837 8.49 2.0E-70 X72662.1 NT P 18956 31735 1.22 2.0E-70 AF310105.1 NT P 18956 32144 1.97 2.0E-70 D12625.1 NT P 1936 32176 9.77 2.0E-70 AF123074.1 NT P 1986 32177 9.77 2.0E-70 AF123074.1 NT P 1986 3223 0.84 2.0E-70 AF123074.1 NT P 20401 33307 6.42 2.0E-70 AF123074.1 NT P 20401 33307 6.42 2.0E-70 AF12307.1 NT P 20401 33307 6.42 2.0E-70 AF12369.1 NT P 2133 34571 0.97 2.0E-70 AF123630.1 NT P 22539 35536 1.3 2.0E-70 AF1236350.NT NT AF3468 3.48 2.0E-70 AF30420.NT AF3	5706	L			2.0E-7			4.sapiens gene for schwannomin (CS8)
18956 31735 1.22 2.0E-70 AF310105.1 NT P 18338 32144 1.97 2.0E-70 D12625.1 NT P 18085 32176 9.77 2.0E-70 D12625.1 NT P 18089 32176 9.77 2.0E-70 AF123074.1 NT P 18089 32176 9.77 2.0E-70 AF123074.1 NT P 18089 3246 1.64 2.0E-70 AF123074.1 NT P 20401 33307 6.42 2.0E-70 AF288207.1 NT P 20401 33307 6.42 2.0E-70 AF1235074.1 NT P 20401 33623 0.75 2.0E-70 AF123507.1 NT P 2133 35536 1.3 2.0E-70 AF123508.1 NT P 22485 3548 3.48 2.0E-70 AF123303.1 NT P 23486 37046 7.72	5708	L			2.0E-7			H.sapiens gene for schwannomin (CS8)
180338 32144 1.97 2.0E-70 D12625.1 NT PT 18089 32176 9.77 2.0E-70 AF123074.1 NT PT 18089 32177 9.77 2.0E-70 AF123074.1 NT PT 18089 30446 1.64 2.0E-70 AF1286207.1 NT NT 20401 33307 6.42 2.0E-70 AF288207.1 NT NT 20401 33621 0.75 2.0E-70 AF288207.1 NT NT 20705 33621 0.75 2.0E-70 AF288207.1 NT NT 21632 34571 0.97 2.0E-70 H47859.1 EST_HUMAN NT 22539 35536 1.3 2.0E-70 AF123303.1 NT NT 23465 36487 3.48 2.0E-70 AF03520 NT NT NT 23465 36487 3.48 2.0E-70 AF03520 NT NT NT 24597 36488	6351				2.0E-7		LN	Homo sapiens NALP1 mRNA, complete cds
19365 32176 9.77 2.0E-70 AF123074.1 NT PT 18089 32177 9.77 2.0E-70 AF123074.1 NT PT 18089 30446 1.64 2.0E-70 AF12367.1 NT PT 20401 33307 6.42 2.0E-70 AF288207.1 NT PT 20705 33621 0.75 2.0E-70 AF288207.1 NT PT 21133 0.84 2.0E-70 AF288207.1 NT PT PT 21133 0.8536 0.8 2.0E-70 H47959.1 EST_HUMAN PT 21632 34571 0.97 2.0E-70 H147959.1 NT NT 22539 35536 1.3 2.0E-70 H147959.1 NT NT 23465 36487 3.48 2.0E-70 AF03520 NT NT NT NT 23465 37046 7.73 2.0E-70 4503520 NT NT NT NT NT NT </td <td>6745</td> <td></td> <td></td> <td></td> <td>2.0E-7</td> <td></td> <td>NT</td> <td>Humen mRNA for NF1 protein isoform (neurofibramin isoform), complete cds</td>	6745				2.0E-7		NT	Humen mRNA for NF1 protein isoform (neurofibramin isoform), complete cds
18089 32177 8.77 2.0E-70 AF123074.1 NT NT 18089 30446 1.64 2.0E-70 11422642 NT 1 20401 33802 0.84 2.0E-70 M21741.1 NT NT 20705 33621 0.75 2.0E-70 M2741.1 NT NT 21133 34571 0.97 2.0E-70 H478591 EST_HUMAN ST 21632 34536 1.3 2.0E-70 H478591 NT NT 22539 35536 1.3 2.0E-70 H478591 NT NT 22539 35536 1.3 2.0E-70 H478591 NT NT 22539 35536 1.3 2.0E-70 AF12303.1 NT NT 23465 36487 3.48 2.0E-70 AF03520 NT NT NT 24397 30976 2.52 2.0E-70 4503520 NT NT NT 221721 0.84 1.0E-70	6773	1					NT	Homo saplens cytoplasmic dynein intermediate chain 1 mRNA, complete cds
18089 30446 1 64 2 0E-70 11422642 NT 18958 32823 0 84 2 0E-70 M21741.1 NT 20401 33307 6 42 2 0E-70 M21741.1 NT 20705 33621 0 .75 2 .0E-70 H47859.1 EST_HUMAN 21133 34571 0 .97 2 .0E-70 H47859.1 EST_HUMAN 21632 34571 0 .97 2 .0E-70 H47859.1 NT 22539 35536 1.3 2 .0E-70 H47859.1 NT 225346 35992 0.6 2 .0E-70 AF123303.1 NT 23465 36487 3.48 2 .0E-70 AF033042.1 NT 23465 36488 3.48 2 .0E-70 AF03520 NT NT 24397 30976 2.52 2 .0E-70 AF03520 NT AF03520 NT 24397 30977 2.52 2 .0E-70 AF03560 NT AF03560 NT 22212 0 .84 1 .0E-70 AF03	8773						LN	Homo sapiens cytoplasmic dynein intermediate chain 1 mRNA, complete cds
19958 32823 0.84 2.0E-70 AF288207.1 NT NT 20401 33307 6.42 2.0E-70 M21741.1 NT NT 20133 33621 0.75 2.0E-70 M21741.1 NT NT 21632 33621 0.75 2.0E-70 H47959.1 EST_HUMAN 22539 35536 1.3 2.0E-70 H47959.1 EST_HUMAN 22946 35636 0.6 2.0E-70 AF123303.1 NT 23465 38489 3.48 2.0E-70 AF123303.1 NT 23486 37016 7.73 2.0E-70 A503520 NT 24397 30976 2.52 2.0E-70 4503520 NT 24397 30977 2.52 2.0E-70 4503520 NT 24397 30976 2.73 1.0E-70 4504200.1 EST_HUMAN 23335 38348 15.83 1.0E-70 A7738538.1 EST_HUMAN 18715 31466	7070	<u> </u>					NT	Homo sapiens sialytransferase 6 (N-acetyllacosaminide alpha 2,3-sialytransferase) (SIAT6), mRNA
20401 33307 6.42 2.0E-70 M21741.1 NT 20705 33621 0.75 2.0E-70 11423599 NT 21133 34571 0.97 2.0E-70 11528355 NT 21632 34571 0.97 2.0E-70 4173530.1 NT 22539 35536 1.3 2.0E-70 AF123303.1 NT 22946 35902 0.6 2.0E-70 AB033042.1 NT 23465 38489 3.48 2.0E-70 AB03304.0 NT 23465 38489 3.48 2.0E-70 AB033520 NT NT 24397 3.0976 2.52 2.0E-70 4503520 NT NT 24397 3.0976 2.52 2.0E-70 4503450 NT NT 24397 3.0977 2.52 2.0E-70 4504400 NT NT 22212 0.81 1.0E-70 M85795.1 EST_HUMAN 23355 33465 9.2 9.0E-71 A1143870.1 EST_HUM	7434						LN	Homo sapiens cysteinyl-tRNA synthetase mRNA, complete cds, alternatively spliced
20705 33621 0.75 2.0E-70 11423599 NT 21133 34571 0.8 2.0E-70 H47959.1 EST_HUMAN 21632 34571 0.97 2.0E-70 -11526355 NT 1 22539 35536 1.3 2.0E-70 AF123303.1 NT 22844 35892 0.6 2.0E-70 AB033042.1 NT 23465 36487 3.48 2.0E-70 AB033042.1 NT 23465 36487 3.48 2.0E-70 AB03304.0 NT 23465 36487 3.48 2.0E-70 A503520 NT 24397 2.52 2.0E-70 4503520 NT 24397 2.52 2.0E-70 4503520 NT 24397 2.52 2.0E-70 4507460 NT 22312 0.81 1.0E-70 4507460 NT 23315 31465 9.2 9.0E-71 A1143870.1 EST_HUMAN 18715 31466 9.2	7859						N⊤	Human guanine nucleotide-binding protein alpha-subunit gene (G-s-alpha), exons 4 and 5
21133 0.8 2.0E-70 H47959.1 EST_HUMAN 22539 34571 0.97 2.0E-70 -11528355 NT 22539 35536 1.3 2.0E-70 -11528355 NT 22684 35992 0.6 2.0E-70 AF123303.1 NT 23465 36487 3.46 2.0E-70 AB033042.1 NT 23465 36487 3.48 2.0E-70 AB023420 NT 23465 37016 7.73 2.0E-70 4503520 NT 24397 30977 2.52 2.0E-70 11430460 NT 24397 30977 2.52 2.0E-70 11430460 NT 22721 0.64 1.0E-70 4507476 NT 22721 0.81 1.0E-70 4407292.1 EST_HUMAN 23315 31466 9.2 9.0E-71 AI143870.1 EST_HUMAN 18715 31466 9.2 9.0E-71 AI143870.1 EST_HUMAN 19969 32508 1.82 9.0E-71 AI143870.1 EST_HUMAN	8164			0.75	2.0E-7		NT	Homo sapiens amyto-1,6-glucosidase, 4-alpha-glucanotransferase (9)ycogen debranching enzyme, glycogen storage disease type III) (AGL), mRNA
21632 34571 0.97 2.0E-70 · 11528355 NT 22539 35536 1.3 2.0E-70 AF123303.1 NT 22844 35992 0.6 2.0E-70 AB033042.1 NT 23465 36487 3.48 2.0E-70 B922420 NT 23465 36487 3.48 2.0E-70 B923420 NT 23465 36487 3.48 2.0E-70 B923420 NT 23465 36487 3.48 2.0E-70 4503520 NT 24397 30977 2.52 2.0E-70 11430460 NT 24397 30977 2.52 2.0E-70 11430460 NT 221721 0.64 1.0E-70 4507476 NT 22312 0.81 1.0E-70 A4422292.1 EST_HUMAN 23315 31466 9.2 9.0E-71 A1143870.1 EST_HUMAN 19969 32508 1.82 9.0E-71 A1654903.1 EST_HUMAN	8594	┸	L	0.8	2.0E-	H47959	'∟ا	yp79g02.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:193682 5
22539 35536 1.3 2.0E-70 AF123303.1 NT 22884 35992 0.6 2.0E-70 AB033042.1 NT 23465 36487 3.48 2.0E-70 B923420 NT 23465 36488 3.48 2.0E-70 8923420 NT 23846 37016 7.73 2.0E-70 4503520 NT 24397 30977 2.52 2.0E-70 11430460 NT 24397 30977 2.52 2.0E-70 11430460 NT 22721 0.64 1.0E-70 4507476 NT 22721 0.81 1.0E-70 4450746 NT 22335 36348 15.83 1.0E-70 AV738538.1 EST_HUMAN 18715 31466 9.2 9.0E-71 AI143870.1 EST_HUMAN 19969 32508 1.82 9.0E-71 AI143870.1 EST_HUMAN	9606		L		2.0E-		ΝŢ	Homo sapiens dynactin p62 subunit (LOC51164), mRNA
22884 35992 0.6 2.0E-70 AB033042.1 NT 23465 36487 3.48 2.0E-70 8923420 NT 23465 36488 3.48 2.0E-70 8923420 NT 23846 37016 7.73 2.0E-70 4503520 NT 24397 30977 2.52 2.0E-70 11430460 NT 16048 2.73 1.0E-70 4507476 NT 22721 0.64 1.0E-70 4507476 NT 22312 0.81 1.0E-70 AA422292.1 EST_HUMAN 23315 31465 9.2 9.0E-71 AI143870.1 EST_HUMAN 18715 31466 9.2 9.0E-71 AI143870.1 EST_HUMAN 19869 32508 1.82 9.0E-71 AI143870.1 EST_HUMAN	10044	L			2.0E-7	AF123303.1	NT	Homo sapiens calcium-binding transporter mRNA, partial cds
23465 36487 3.48 2.0E-70 8923420 NT 23465 36488 3.48 2.0E-70 8923420 NT 23946 37016 7.73 2.0E-70 4503520 NT 24397 30976 2.52 2.0E-70 11430460 NT 24397 30977 2.52 2.0E-70 11430460 NT 21721 0.64 1.0E-70 4507476 NT 22212 0.84 1.0E-70 4507476 NT 23315 36348 15.93 1.0E-70 AA42292.1 EST_HUMAN 18715 31466 9.2 9.0E-71 AI143870.1 EST_HUMAN 19669 32508 1.82 9.0E-71 AI143870.1 EST_HUMAN	10490	L					LN.	Homo sapiens mRNA for KIAA1216 protein, partial cds
23465 36488 3.48 2.0E-70 8923420 NT 23946 37016 7.73 2.0E-70 4503520 NT 24397 30976 2.52 2.0E-70 11430460 NT 18048 2.73 1.0E-70 4503460 NT 21721 0.64 1.0E-70 450746 NT 22212 0.84 1.0E-70 450746 NT 23315 36348 15.83 1.0E-70 AV738538.1 EST_HUMAN 18715 31466 9.2 9.0E-71 AI143870.1 EST_HUMAN 19669 32508 1.82 9.0E-71 AI143870.1 EST_HUMAN	10950	乚			2.0E-7		LN	Homo saplens hypothetical protein FLJ20450 (FLJ20450), mRNA
23948 37016 7.73 2.0E-70 4503520 NT 24397 30976 2.52 2.0E-70 11430460 NT 14048 2.73 1.0E-70 4507476 NT 121721 0.64 1.0E-70 4507476 NT 22212 0.81 1.0E-70 480795.1 EST HUMAN 23335 36348 15.83 1.0E-70 AV738538.1 EST HUMAN 18715 31466 9.2 9.0E-71 A1143870.1 EST HUMAN 19669 32508 1.82 9.0E-71 A1654903.1 EST HUMAN	10950	<u> </u>			2.0E-		NT	Homo sapiens hypothetical protein FLJ20450 (FLJ20450), mRNA
24397 30976 2.52 2.0E-70 11430460 INT 24397 30977 2.52 2.0E-70 11430460 INT 16048 2.73 1.0E-70 4507476 INT 21721 0.64 1.0E-70 M85785.1 EST_HUMAN 22212 0.81 1.0E-70 M85785.1 EST_HUMAN 23335 36348 1.0E-70 AV738538.1 EST_HUMAN 18715 31465 9.2 9.0E-71 A1143870.1 EST_HUMAN 19669 32508 1.82 9.0E-71 A1654903.1 EST_HUMAN	11497	L			2.0E-		¥	Homo sepiens eukaryotic translation initiation factor 3, subunit 6 (48KD) (EIT336) mKNA
24397 30977 2.52 2.0E-70 11430480 NT 16048 2.73 1.0E-70 4507476 NT 21721 0.64 1.0E-70 W85785.1 EST_HUMAN 22312 0.81 1.0E-70 M85785.1 EST_HUMAN 23335 36348 1.583 1.0E-70 AA42292.1 EST_HUMAN 18715 31465 9.2 9.0E-71 A1143870.1 EST_HUMAN 18715 31466 9.2 9.0E-71 A1143870.1 EST_HUMAN 19669 32508 1.82 9.0E-71 A1654903.1 EST_HUMAN	12157	L			2.0E-7		FN	Homo sapiens law density lipoprotein-related protein 2 (LRP2), mKNA
16048 2.73 1.0E-70 4507476 NT 21721 0.64 1.0E-70 W85795.1 EST_HUMAN 22212 0.81 1.0E-70 A442292.1 EST_HUMAN 23335 36348 15.83 1.0E-70 A738538.1 EST_HUMAN 18715 31465 9.2 9.0E-71 A1143870.1 EST_HUMAN 18715 31466 9.2 9.0E-71 A1143870.1 EST_HUMAN 19669 32508 1.82 9.0E-71 A1654903.1 EST_HUMAN	12157				2.0E-		N.	Homo saptens low density lipoprotein-related protein 2 (LRF2), mRNA
2335 36348 15.93 1.0E-70 W85795.1 EST_HUMAN 23335 36348 15.93 1.0E-70 AA738538.1 EST_HUMAN 18715 31465 9.2 9.0E-71 A1143870.1 EST_HUMAN 19669 32508 1.82 9.0E-71 A1654903.1 EST_HUMAN	3440			2.73	1.0E-		Ę	Homo sapiens transglutaminase 3 (E polypeptide, protein-glutamine-gamma-glutamyfransferase) (i GM3) mRNA
22212 0.81 1.0E-70 AA442292.1 EST_HUMAN 23335 36348 15.93 1.0E-70 AV738538.1 EST_HUMAN 18715 31466 9.2 9.0E-71 A1143870.1 EST_HUMAN 19669 32508 1.82 9.0E-71 A1654903.1 EST_HUMAN	9204			0.64	1.06	W85795.1	EST_HUMAN	zh55g05,r1 Soares_fetal_fiver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:416024 5
23335 36348 15.83 1.0E-70 AV738538.1 EST_HUMAN 18715 31466 9.2 9.0E-71 AI143870.1 EST_HUMAN 19669 32508 1.82 9.0E-71 AI654903.1 EST_HUMAN 19669 9.0E-71 AI6549 9.	9714	1		0.81	1.0E-	AA442292.1	EST_HUMAN	zv54c03.r1 Soares_testis_NHT Homo saplens cDNA clone IMAGE:757444 5'
18715 31465 9.2 9.0E-71 A1143870.1 EST_HUMAN 18715 31466 9.2 9.0E-71 A1143870.1 EST_HUMAN 19669 32508 1.82 9.0E-71 A1654903.1 EST_HUMAN 19669 9.0E-71 A1654903.1 EST_HUMAN 19669 9.0E-71 A1654903.1 EST_HUMAN 19669 9.0E-71 A1654903.1 EST_HUMAN 19669 9.0E-71 A1654903.1 EST_HUMAN 19669 9.0E-71 A1654903.1 EST_HUMAN 19669 9.0E-71 A1654903.1 EST_HUMAN 19669 9.0E-71 A1654903.1 EST_HUMAN 19669 9.0E-71 A1654903.1 EST_HUMAN 19669 9.0E-71 A1654903.1 EST_HUMAN 19669 9.0E-71 A1654903.1 EST_HUMAN 19669 9.0E-71 A1654903.1 EST_HUMAN 19669 9.0E-71 A1654903.1 EST_HUMAN 19669 9.0E-71 A1654903.1 EST_HUMAN 19669 9.0E-71 A1654903.1 EST_HUMAN 19669 9.0E-71 A16549 9.0E	10814	L			1. P.	AV738538.1	EST_HUMAN	AV738538 CB Homo saplens cDNA clone CBLBGB10 5'
19869 32508 1.82 9.0E-71 A143870.1 EST_HUMAN	6609		ļ		9.0E	AI143870.1	EST_HUMAN	qe04f01.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1738009 3' similar to TR:O14045 O14045 PHOSPHOTRANSFERASE.;
19869 32508 1.82 9.0E-71 AI654903.1 EST_HUMAN	808	1			9.0E-7	AI143870.1	EST_HUMAN	qe04f01.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1738009 3' similar to TR:O14045 014045 PHOSPHOTRANSFERASE.;
NAME IN TORSES OF THE PARTY OF	7088	L			9.0E-7	AI654903.1	EST_HUMAN	wb52c05.x1 NCI_CGAP_GC8 Homo sapiens cDNA clone IMAGE:2309288 3' similar to TR:P97213 P97213 CDU2, CDU1, TCDD, TCDB, TCDE, TCDE, TCDC, CDD1, CDD2, CDD3, AND CDD4 GENES. :
32508 5.11 9.0E-71 A1654903.1 EST HUMAIN	11389				9.0E-	71 Al654903.1	EST_HUMAN	wbs2c05.x1 NCI_CGAP_GC6 Homo sepiens cDNA clone IMAGE:2309288 3' similar to TR:P97213 P97213 CDU2, CDU1, TCDD, TCDB, TCDE, TCDC, CDD1, CDD2, CDD3, AND CDD4 GENES. ;

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Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
0006	21537		3.85	8.0E-71	8.0E-71 AA171451.1	EST_HUMAN	zp21d11.r1 Stratagene neuroepithelium (#937231) Homo sapiens cDNA clone IMAGE:610101 5' similar to TR:G1143061 G1143061 STRAIN XA34 POL ;
7410	19935	32800	66.7	7.0E-71	7.0E-71 AA442230.1	EST_HUMAN	zv60h06.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:758075 5'
8612			1.34	7.0E-71		EST_HUMAN	zj91a06.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:482226 3'
11211	23714	36769		7.0E-71		N⊤	Homo sapiens chromosome 21 segment HS21C010
2251	14825				5.0E-71 AF056322.1	TN	Homo sapiens SP100-HMG nuclear autoantigen (SP100) mRNA, complete cds
4197		29236	1.17		5.0E-71 AW816405.1	EST_HUMAN	QV4-ST0234-181199-037-f05 ST0234 Homo sapiens cDNA
6041			1.72	5.0E-71	4502740 NT	NT	Homo sapiens cyclin-dependent kinase 6 (CDK6) mRNA
62/9			1.8	5.0E-71	11641408 NT	NT	Homo sapiens keratin, hair, acidic, 7 (KRTHA7), mRNA
2000				5.0E-71	7662209 NT	NT	Homo sapiens KIAA0623 gene product (KIAA0623), mRNA
7200	19731	32583	0.67	5.0E-71	11431590 NT	ΙN	Homo sapiens protein kinase C, beta 1 (PRKCB1), mRNA
7520	20040			5.0E-71	5.0E-71 M38106.1	ΙN	Human neurofibromatosis protein type 1 mRNA, 3' end of cds
7693		33089		5.0E-71	11528445 NT	NT	Homo sapiens MAGUK protein p55T; Protein Associated with Lins 2 (LOC51678), mRNA
7716			,		5.0E-71 AF072810.1	ΤN	Homo sapiens transcription factor WSTF mRNA, complete cds
8460				5.0E-71	5453777 NT	NT	Homo sapiens nuclear factor related to kappa B binding protein (NFRKB) mRNA
8460		33917		5.0E-71	5453777 NT	NT	Homo sapiens nuclear factor related to kappa B binding protein (NFRKB) mRNA
9825	22323		2.26	5.0E-71	5.0E-71 X13467.1	LN	Human PreA4 gene for Alzheimer's disease A4 amyloid protein precursor (exon 2)
10513	23051	36062	1.57	5.0E-71	5729900 NT	LN	Homo sapiens IGF-II mRNA-binding protein 3 (KOC1), mRNA
							Homo sapiens pro-platelet basic protein (includes platelet basic protein, beta-thromboglobulin, connective
10859	23380	36399		5.0E-71		L	tissue-activating peptide III, neutrophil-activating peptide-2) (PPBP), mRNA
11071	┙			5.0E-71		LZ	Homo sapiens similar to hypothetical protein FLJ20163 (H. sapiens) (LOC63325), mRNA
11706				5.0E-71	-	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
108		25287		4.0E-71	4507592 NT	L	Homo saplens tumor necrosis factor (ligand) superfamily, member 10 (TNFSF10) mRNA
372		25508	116.83	4.0E-71		NT	Equus caballus glyceraldehyde-3-phosphate dehydrogenase mRNA, partial cds
372			116.83	4.0E-71	4.0E-71 AF157826.1	LN	Equus caballus glyceraldehyde-3-phosphate dehydrogenase mRNA, partial cds
2911	15528	27998	3.25	4.0E-71	4505880 NT	NT	Homo sapiens plasminogen (PLG) mRNA
4519	17103		5.18	4.0E-71	4.0E-71 AF056322.1	ΙN	Homo sapiens SP100-HMG nuclear autoantigen (SP100) mRNA, complete cds
5123	17695	30132	6.54	4.0E-71	7657602 NT	L	Homo sapiens putative heme-binding protein (SOUL), mRNA
7977	20519		1.23	3.0E-71	-71 AU135734.1	EST_HUMAN	AU135734 PLACE1 Homo sapiens cDNA clone PLACE1002775 5'
							nl45h10.s1 NCI_CGAP_Pr4 Hamo septens cDNA clone IMAGE:1043683 similar to contains PTR5,t3 PTR5
105/2	1			3.0E-71	3.0E-71 AA557683.1	EST_HUMAN	repetitive element :
1273	_ 1	١		2.0E-71	2.0E-71 AL163206.2	LN.	Homo sapiens chromosome 21 segment HS21C006
5523	18155	30570		2.0E-71	2.0E-71 D87462.1	F	Human mRNA for KIAA0272 gene, partial cds
5523			6.94	2.0E-71	2.0E-71 D87462.1	Ņ	Human mRNA for KIAA0272 gene, partial cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Vatue	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
10478	22972	35979	2.97		2.0E-71 AF095703.1	LΝ	Homo sapiens short chain L-3-hydroxyacy-CoA dehydrogenase precursor (HADHSC) gene, nuclear gene encoding mitochondrial protein, complete cds
10478	22972	35980	2.97		2.0E-71 AF095703.1	LN	Homo sapiens short chain L-3-hydroxyacy-CoA dehydrogenase precursor (HADHSC) gene, nuckear gene encoding mitochondrial protein, complete cds
10574	23109	36122	3.75		2.0E-71 BE018477.1	EST_HUMAN	bb81406.71 NIH_MGC_10 Homo sapiens cDNA clone INAGE:3048754 5 similar to SW:R23B_HUMAN P54727 UV EXCISION REPAIR PROTEIN PROTEIN RAD23 HOMOLOG B ;
11454	23904		1.96		R55626.1	EST_HUMAN	y77c11.r1 Soares breast 2NbHBst Homo sapiens cDNA clone IMAGE:154772 5'
11825			10.18		2.0E-71 T95489.1	EST_HUMAN	ye43e09.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:120520 5'
989	13290	25771	1.4		1.0E-71 AI077927.1	EST_HUMAN	oy15e03.s1 Soares_senescent_fibroblasts_NbHSF Homo sapiens cDNA clone IMAGE:1665916 3' similar to contains LOR1.b2 LOR1 repetitive element;
977		26104		1.0E-71	T706281 NT	LΝ	Homo sapiens neuronal cell death-related protein (LOC51616), mRNA
1139				1.0E-71	1.0E-71 AF205890.1	LN	Homo sapiens disabled-2 gene, excns 2 through 15 and complete cds
1385			10.24	1.0E-71	E-71 AF012872.1	TN	Homo saplens phosphatidylinositol 4-kinase 230 (pi4K230) mRNA, complete cds
2129			1.38	1.0	E-71 AB017007.1	NT	Homo sapiens PMS2L16 mRNA, partial cds
2129			1.38	1.0	E-71 AB017007.1	LN	Homo sapiens PMS2L16 mRNA, partal cds
2717			3.73	1.0	7657153 NT	NT	Homo sapiens hairy/enhancer-of-split related with YRPW modf-like (HEYL), mRNA
3549	16153	28635	1.24	1.0E-71	E-71 AF119665.1	IN	Homo sapiens inorganic pyrophosphatase mRNA, complete cds
3656	16259	28730	6.17	1.0E-71	E-71 AF246219.1	NT	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds
3656	16259	28731	6.17	1.0E-71	1.0E-71 AF246219.1	· LN	Homo saplens SNARE protein kinase SNAK mRNA, complete cds
3710	16311	28778	0.95		1.0E-71 BE122850.1	EST_HUMAN	02_15 Human Epidermal Keratinocyte Subtraction Library- Upregulated Transcripts Homo sapiens cDNA clone 02_15 5' similar to Homo sapiens chromosome 19
3710	16311		0.95	7	E-71 RE122850 1	FST HIMAN	02_15 Human Epidermal Keratinocyte Subtraction Library- Upregulated Transcripts Homo sapiens cDNA close 02_15 5 similar to Homo sapiens chromesome 19
3804	•	28868		1.0	Г	Т	Homo sapiens attractin precursor (ATRN) gene, exon 19
4569	17152	29598	2.19	10	E-71 D28476.1	N	Human mRNA for KIAA0045 gene, complete cds
4695				1.0	E-71 H23176.1	EST HUMAN	ym56h10,r1 Soares Infant brain 1NIB Homo sapiens cDNA clone IWAGE:52528 5'
6840	19430	32246	1.54	1.0E-71	11426182 NT	Ę	Homo sapiens GCN5 (general control of amino-acid synthesis, yeast, homolog)-like 2 (GCN5L2), mRNA
7144	L		1.33	1.0E-71	E-71 AB011131.1	ĘZ	Homo sapiens mRNA for KIAA0559 protein, partial cds
7352	19878		11.94		1.0E-71 U80753.1	NT	Homo sapiens CAGL79 mRNA, partial cds
8089	20830		0.87	1.0E-71	E-71 AF105267.1	NT	Homo sapiens glypican-6 (GPC6) mRNA, complete cds
8110	1			1.0	1	Ľ	Homo sapiens myomesin (M-protein) 2 (165kD) (MYOM2), mRNA
8383		33842	3.93			N	Hamo sapiens hypothetical protein FLJ10998 (FLJ10998), mRNA
8383	ŀ			1.0E-71	8922811 NT	L	Homo sapiens hypothetical protein FLJ10998 (FLJ10998), mRNA

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Table 4
Single Exon Probes Expressed in Fetal Liver

	Top Hit Descriptor	CSNK2A1=casein kinase II (CKII) subunit alpha [human, Genomic, 18862 nt]	Homo saplens cytochrome c oxidase subunit VIIa-related protein gene, complete ods	AV761217 MDS Homo sapiens cDNA clone MDSEIA03 5'	Homo sapiens activated leucccyte cell achesion molecule (ALCAM), mRNA	AV761217 MDS Homo sapiens cDNA clone MDSEIA03 5'	Homo saplens coagulation factor XIII, A1 polypeptide (F13A1), mRNA	Homo sapiens leucyl/cystiny aminopeptidase (LNPEP), mRNA	Homo sapiens leucy/cystiny/ aminopeptidase (LNPEP), mRNA	Homo sapiens gene for AF-6, complete cds	wk85g03.x1 NCI_CGAP_Lu19 Home sapiens cDNA clone IMAGE:2423188 3' similar to TR:O86705 O86705 HYPOTHETICAL 38.6 KD PROTEIN. :contains Alu repetitive element;	wk85g03.x1 NCI_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2423188 3' similar to TR:O86705 O86705	FILTO INETICAL 56.0 NO FIXO TEIN. CONTAINS ALU PERGUNA BIBINENT. 60145874751 NIH MGC 88 Home canians CONA close IMAGE 38894515	Homo sanians nuclear RNA hallcase DECD variant of DEAD box family (DDX) and NA	Homo sapiens nuclear RNA helicase, DECD variant of DEAD box family (DDXL), mRNA Homo sapiens nuclear RNA helicase, DECD variant of DEAD box family (DDXL), mRNA	Homo sepiens nuclear RNA helicase, DECD variant of DEAD box family (DDX1), mRNA	Homo sapiens aconitase 2, mitochondrial (ACO2), nuclear gene encoding mitocondrial protein, mRNA	Homo sapiens aconitase 2, mitochondrial (ACO2), nuclear gene encoding mitocondrial protein, mRNA	Homo sapiens aconitase 2, mitochondrial (ACO2), nuclear gene encoding mitocondrial protein, mRNA	(pseudogene) PTMAP2=prothymosin alpha [human, Genomic, 1192 nt, segment 2 of 3]	HSPD13870 HM3 Homo sapiens cDNA clone s4000051G02	Homo sapiens chromosome 21 segment HS21C046	QV0-CS0010-150900-398-e11 CS0010 Homo sapiens cDNA	QV0-CS0010-150900-398-e11 CS0010 Homo sapiens cDNA	QV0-CS0010-150900-398-e11 CS0010 Homo sapiens cDNA	QV0-CS0010-150900-398-e11 CS0010 Homo sapiens cDNA	Homo sapiens alpha-tubulin mRNA, complete cds	AU128584 NT2RP2 Homo sapiens cDNA clone NT2RP2003751 5'
-	Top Hit Database Source	N _T	¥ k	EST_HUMAN A		T_HUMAN				Į.	EST HUMAN H	* 1	Т							d) LN	EST_HUMAN H		EST_HUMAN Q	EST_HUMAN O	EST_HUMAN Q	T HUMAN		EST_HUMAN A
	Top Hit Acession No.		1.0E-71 AY007643.1	1.0E-71 AV761217.1	11433142 NT	1.0E-71 AV761217.1	11418903 NT	11417191 NT	11417191 NT	-71 AB011399.1	9.0E-72 AI857635.1		8.0E-72 RE034759 4	244Bn	11424480 NT	11424480 NT	4501866 NT	4501866 NT	4501866 NT	S41694.1	-72 F26259.1	-72 AL163246.2				5.0E-72 BF333707.1		-72 AU128584.1
	Most Similar (Top) Hit BLAST E Value	1.0E-71	1.0E-71	1.0E-71	1.0E-71	1.0E-71	1.0E-71	1.0E-71	1.0E-71	1.0E-71	9.0E-72	25	8.0E-72	8 OF 72	8.0E-72	8.0E-72	7.0E-72	7.0E-72	7.0E-72	7.0E-72	7.0E-72	6.0E-72	5.0E-72	5.0E-72	5.0E-72	5.0E-72	5.0E-72	5.0E-72
	Expression Signal	0.97	7.06	4.9	1.57	6.4	2.09	1.82	1.82	15.2	1.33		78.0	204	2.04	2.04	1.48	1.48	1.48	3.23	1.9	4.31	1.56	1.56	10.23	10.23	2.72	1.36
	ORF SEQ ID NO:	34634	35391		35931		36238	36574	36575		25559	09390	31638		36534		29225	29228	29227	32558			25223	25224	25223	25224		32391
	Exon SEQ ID NO:	21690		22475			23286	23539	23539	24432	13065	12065	18868	23504	23504	23504	16779	16779	16779	19710	24521	20865	12746	12746	12746			19564
	Probe SEQ ID NO:	9155	9920	9980	10431	10663	10762	11025	11025	12208	432		8259	5	10990	10990	4190	4190	4190	7178	12339	8324	29	67	99	98	1178	7030

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Single Exert Truesed III retai Livei	Top Hit Descriptor	au80c03.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE.2782564 5' similar to TR:Q89785 Q99785 HYPOTHETICAL 32.4 KD PROTEIN ;contains element MSR1 repetitive element ;	AV724832 HTB Homo sapiens cDNA clone HTBAKB01 5'	MR4-BT0598-010600-005-d05 BT0598 Homo sapiens cDNA	MR4-BT0568-010600-005-d05 BT0598 Homo sapiens cDNA	ba08g08.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823806 5'	ba08g08.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823806 5'	QV1-BT0632-280800-342-e10 BT0632 Homo sapiens cDNA	Homo sapiens hypothetical protein dJ1057B20.2 (DJ1057B20.2), mRNA	Homo sepiens mRNA for KIAA1278 protein, partial cds	Homo saplens zinc finger protein ZFP-95 (ZFP95) mRNA, alternativaly spliced, complete cds	yd83a01.r1 Scares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:115752 5' similar to SP:A44282 A44282 RETROVIRUS-REI ATED POI POI YDROTEIN - HIIMAN	Homo sapiens hect domain and RLD 2 (HERC2), mRNA	Home sapiens hypothetical protein FLJ20758 (FLJ20759), mRNA	qh67c02.x1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:1849730 3' slmilar to	TR:Q14498 Q14498 SPLICING FACTOR. [1] :contains Alu repetitive element;contains element L1 repetitive	element;	yu28a03 r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:235084 5	yd29d09.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:109649.3'	Homo sapiens WEE1 gene for protein kinase and partial ZNF143 gene for zinc finger transcription factor	Homo saplens pre-B-ceil colony-enhancing factor (PBEF) mRNA	ah63a08.s1 Soares_testis_NHT Homo saplens cDNA clone 1310290 3'	Human chondrottin sulfate proteoglycan versican V0 splice-variant precursor peptide mRNA, complete cds	Human chondroitin suifate proteoglycan versican V0 spilce-variant precursor peptide mRNA, complete cds	Human gamma-aminobutyric acid transaminase mRNA, partial cds	Human gamma-aminobutyric acid transaminase mRNA, partial cds	TCAAP1E1252 Pediatric acute myelogenous leukemia cell (FAB M1) Baylor-HGSC project=TCAA Homo sapiens cDNA clone TCAAP1252	Homo sapiens 859 kb contig between AML1 and CBR1 on chromosome 21q22, segment 3/3
Exoll Flobe	Top Hit Database Source	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	LZ	FZ	LZ.	HAT HIMAN	Z	NT.			EST HUMAN	EST HUMAN	EST_HUMAN	F	LN	EST_HUMAN	LΝ	Ā	Ę	Į,	EST_HUMAN	۲
aifilio	Top Hit Acession No.)E-72 AW161274.1	4V724632.1	3F331571.1	3F331571.1	5.0E-72 BE208545.1			11034844 NT	4.0E-72 AB033104.1	E-72 AF170025.1	F-70 T87947 4	5729867 NT	8923669 NT			DE-72 AI248796.1	E-72 H79421.1	JE-72 T81910.1	4.0E-72 AJ277546.2	5031976 NT	JE-72 AA723823.1	DE-72 U16306.1	J16306.1			-	
	Most Similar (Top) Hit BLAST E Value	5.0E-72	5.0E-72	5.0E-72	5.0E-72	5.0E-72	5.0E-72	5.0E-72	4.0E-72	4.0E-72	4.0E-72	4 0F-79	4.0E-72	4.0E-72			4.0E-72	4.0E-72	4.0E-72	4.0E-72	3.0E-72	3.0E-72	3.0E-72	3.0E-72 U16306.1	3.0E-72	3.0E-72 U80228.1	3.0E-72	3.0E-72/
	Expression Signal	3.18	0.62	3.44	3.44	1.62	1.62	2.89	1.21	1.05	0.72	0.84	3.01	1.62			0.98	7.8	2.48	4.	3.55	1.46	7.76	7.76	1.33	1.33	0.98	13.29
	ORF SEQ ID NO:	34173	35346	36672	36673	37018	37019			30387	30761	32075	32829	35171			35807	36918	37046	30833	25157		26307	26308	26348	26349	28690	28196
	Exon SEQ ID NO:	21250	22368	23630	23630				17523	17979	18283	19270	19963	22198			22812	23853	23976	24473	12701	13549	13797	13797	13834	13834	14159	15725
	Probe SEQ ID NO:	8711	9871	11122	11122	11500	11500	11895	4948	5422	5656	6674	7439	6696			10318	11402	11528	12263	22	936	1196	1196	1235	1235	1567	3110

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	Top Hit Descriptor	Homo sapiens hypothetical protein FLJ20585 (FLJ20585), mRNA	TCR V delta 2-C alpha ≈T-cell receptor delta and C alpha fusion gene (alternatively spliced, splice junction) fhuman, precursor B-cell line REH, mRNA Partial, 211 nt]	Homo sapiens thioredoxin-like protein (TXNL) gene, exon 3	Homo saplens thioredoxin-like profain (TXNL) gene, exon 3	Homo saplens hypothetical protein (FLJ11127), mRNA	Homo sapiens samaphorin W (SEMAW) mRNA	Homo sapiens growth factor receptor-bound protein 10 (GRB10) gene, exon 5	Homo sapiens growth factor receptor-bound protein 10 (GRB10) gene, exon 5	Homo sapiens mRNA for KIAA1081 protein, partial cds	Homo sapiens mRNA for KIAA 1081 protein, partial cds	Homo sapiens ribosomal protein L3-like (RPL3L) mRNA	Homo sapiens basic transcription factor 2 p44 (btf2p44) gene, partial cds, neuronal apoptosis inhibitory protein (naip) and survival motor neuron protein (smn) genes, complete cds	Homo sapiens nuclear receptor subfamily 1, group H, member 3 (NR1H3), mRNA	Homo sapiens S100A12 gene for Calgranulin C, exon 2 and joined cds	Homo sapiens gene for AF-6, complete cds	Homo sapiens solute cerrier family 13 (sodium-dependent dicerboxylate transporter), member 2 (SLC13A2), mRNA	601890419F1 NIH_MGC_17 Hamo sapiens cDNA clone IMAGE:4131461 5'	601890419F1 NIH_MGC_17 Hamo sapiens cDNA clone IMAGE:4131461 5'	aj28b09.s1 Soares, testis, NHT Homo sapiens cDNA clone 1391609 3' similar to gb:X02067 H.sapiens mRNA for 7SL RNA pseudogene (HUMAN);	Rattus norvegicus putative phosphate/phosphoend/pyruvate translocator mRNA, complete cds	ai83d02.s1 Soares_parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:1387395.3'	Homo sapiens vacuolar protein sorting 41 (yeast homolog) (VPS41), mRNA	Homo sapiens myosin, heavy polypeptide 13, skeletal muscle (MYH13), mRNA	Homo sapiens myosin, heavy polypeptide 13, skaletal muscle (MYH13), mRNA	AV751818 NPD Hamo sapiens cDNA clone NPDAIE11 5	RC4-HT0578-170300-012-g02 HT0578 Hamo sapiens cDNA	RC4-HT0578-170300-012-g02 HT0578 Homo sapiens cDNA	Homo sapiens synaptic glycoprotein SC2 (SC2) mRNA, complete cds	Homo sapiens synaptic glycoprotein SC2 (SC2) mRNA, complete cds	MR0-CT0063-071099-002-h11 CT0063 Hamo sapiens cDNA
	Top Hit Database Source	N	IN	Z	N	NT	LN	TN	TN	LN TN	LN	LN	LN	L	N-	LN	Ę	EST_HUMAN	EST_HUMAN	EST_HUMAN	LN	EST_HUMAN	ΙN	N	IN	EST_HUMAN	EST_HUMAN	EST_HUMAN	NT	LN L	EST_HUMAN
	Top Hit Acession No.	8923548 NT	3.0E-72 S77589.1	3.0E-72 AF143892.1	3.0E-72 AF143892.1	11416196 NT	4759093 NT	3.0E-72 AF073367.1	3.0E-72 AF073367.1	-72 AB029004.1	-72 AB029004.1	4826987 NT	J80017.1	5031892 NT	K98289.1	3.0E-72 AB011399.1	11426671 NT	2.0E-72 BF308560.1	2.0E-72 BF308560.1	2.0E-72 AA789277.1	2.0E-72 AF182714.1	-72 AA846225.1	7657676 NT	11321578 NT	11321578 NT	1.0E-72 AV751818.1	1.0E-72 BE175434.1	1.0E-72 BE175434.1	1.0E-72 AF222742.1	E-72 AF222742.1	9.0E-73 AW374968.1
	Most Similar (Top) Hit BLAST E Value	3.0E-72	3.0E-72	3.0E-72	3.0E-72	3.0E-72	3.0E-72	3.0E-72	3.0E-72	3.0E-72	3.0E-72	3.0E-72	3.0E-72 U80017.1	3.0E-72	3.0E-72	3.0E-72	2.0E-72	2.0E-72	2.0E-72	2.0E-72	2.0E-72	1.0E-72	1.0E-72	1.0E-72	1.0E-72	1.0E-72	1.0E-72	1.0E-72	1.0E-72	1.0E-72	9.0E-73
	Expression Signal	2.84	2.71	0.94	0.94	2.89	1.07	1.98	1.98	4.49	4.49	3.59	1.92	1.52	1.67	2.03	1.41	0.78	0.76	2.52	4.78	1.03	404	1.18	1.18	1.3	3.81	3.81	7.2	7.2	1.28
	ORF SEQ ID NO:	28404	28955	29540	29541	29679		31504	31505	31697	31698	32125	32975		35818	30946	31482		34491	36163	30930	27267	31289	32076		32143	33026				26637
	Exon SEQ ID NO:	15927		17093	17093	17225	18337	18748	18748	18921	18921		20100	l	22822	24413	18729		1	23151		14698	18560	l	19272	24768	20145	L.			14100
	SEQ ID NO:	3317	3895	4509	4509	4643	5711	6134	6134	8314	6314	6726	7585	8118	10328	12174	6113	9025	9025	10619	12260	2120	5940	9299	8676	6744	7633	7633	9510	9510	1508

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					elibile	Exon Probes	Single Exon Probes Expressed in Fetal Liver
Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Vatue	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
6190	18800	31570	96'0	9.0E-73	11525883 NT	F	Homo sapiens membrane protein, palmitoylated 3 (MAGUK p55 subfamily member 3) (MPP3), mRNA
10829	23350		27.89	9.0E-73	11424099 NT	FZ	Homo sapiens ribosomal protein L13a (RPL13A), mRNA
1076	13680	26190	1.62	8.0E-73	8.0E-73 AW071755.1	EST_HUMAN	ws5c08.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2501098 3' similar to TR:Q60050 Q59050 HYPOTHETICAL PROTEIN MJ1656.;
3332	15942	28417	0.61	8.0E-73	11435180 NT	Z	Homo sapiens gephyrin (GPH), mRNA
5768	18394			8.0E-73	4505798 NT	Ν̈́Τ	Homo sapiens phosphatidylinositol 3-kinasa, class 2, alpha polypeptide (PIK3C2A) mRNA
6887			4.21	8.0E-73	11426469 NT	N	Homo sapiens lysozyme homolog (LOC57151), mRNA
8039	20581			8.0E-73	8.0E-73 AF113129.1	NT	Homo sapiens vacudar ATPase isoform VA68 mRNA, complete cds
9275			4.c	8.0E-73	8.0E-73 BE019900.1	EST_HUMAN	bb62a08.y1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3030034 5' similar to gb:X04098_cds1 ACTIN, CYTOPLASMIC 2 (HUMAN); gb:M21495 Mouse cytoskeletal gamme-actin mRNA, complete cds (MOUSE);
9855	22154	35123		8.0E-73	11526037 NT	\ N	Homo sapiens interleukin 12 receptor, beta 1 (IL12RB1), mRNA
9855		35124	1.83	8.0E-73	11526037 NT	FZ	Homo sapiens interleukin 12 receptor, beta 1 (IL12RB1), mRNA
12324	24511	30919	7.07	8.0E-73		Σ	Homo sapiens thyroid autoantigen 70kD (Ku antigen) (G22P1), mRNA
1173				7.0E-73	TN 0823280	LN	Homo sapiens hypothetical protein FLJ20309 (FLJ20309), mRNA
3340	15950	28426	12.1	7.0E-73	7.0E-73 AL163208.2	LN	Homo sapiens chromosome 21 segment HS21 C006
							Homo seplens HLA class III region containing tenascin X (tenascin-X) gene, partial cds; cytochrome P450 21- hydroxylase (CYP21B), complement component C4 (C4B) G11, helicase (SKI2W), RD, complement factor B
4298	16884	28329	2.59	7.0E-73	7.0E-73 AF019413.1	F	(Bf), and complement component C2 (C2) genes,>
5079	17852		1.64	7.0E-73		TN	Homo sapiens chromosome 21 segment HS21C082
169	12832		- 2.14	6.0E-73	6.0E-73 AL163218.2	NT	Homo saplens chromosome 21 segment HS21C018
7224			3.52	6.0E-73	8.0E-73 BE 188574.1	EST_HUMAN	QV0-HT0494-020300-137-403 HT0494 Homo sapiens cDNA
5460	18095		1.78	4.0E-73	11422159 NT	NT	Homo sapiens HELG protein (FAM4A1), mRNA
1902	14487		1.78	3.0E-73	11435913 NT	NT	Homo saplens heme-binding protein (HEBP), mRNA
1902	14487	27049	1.78	3.0E-73	11435913 NT	NT	Homo sapiens heme-binding protein (HEBP), mRNA
6139	19390	32205	1.03	3.0E-73	3.0E-73 AA138403.1	EST HUMAN	2n95e04.s.1 Stratagene fetal retina 937202 Homo sapiens cDNA clone IMAGE:565950 3' similar to abi:223064 cds1 HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN G (HUMAN):
8693				3.0E-73	3.0E-73 AV729428.1	EST HUMAN	AV729428 HTC Homo sapiens cDNA clone HTCAAF071 5
8883		34153	0.63	3.0E-73	3.0E-73 AV729428.1	EST_HUMAN	AV729428 HTC Homo sapiens cDNA clone HTCAAF071 5'
11478	L		1.58	3.0E-73	3.0E-73 A1004040.1	EST_HUMAN	ou11d02.x1 Scares_NFL_T_GBC_S1 Hamo sapiens cDNA clone IMAGE:1625955.31
12579	24675		1.34	3.0E-73		NT	Homo sapiens chromosome 21 segment HS21C046
12583			•	3.0E-73	3.0E-73 AW898081.1	EST_HUMAN	RC3-NN0088-270400-011-c04 NN0086 Homo sapiens cDNA
88	13488	26016	2.4	2.0E-73		LZ.	Homo sapiens BASS1 (BASS1) mRNA, partial cds

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Table 4
Single Exon Probes Expressed in Fetal Liver

		т-	_			_		_	_	_	_		т	_	_	_		_	-	_	_	_	-	-	_	_	_	_	т	_	-	
Onlige Exol Plotes Expressed III Fetal Eivel	Top Hit Descriptor	RC3-NN0066-270400-011-c04 NN0066 Homo sapiens cDNA	Homo sepiens caspase 8, apoptosis-related cysteine protease (CASP8) mRNA	Homo saplens Parkinson disease (autosomal recessive, juvenile) 2, parkin (PARK2), transcript variant 3, mRNA	Homo sapiens Parkinson disease (autosomal recessive, juvenile) 2, patkin (PARK2), transcript variant 3, mRNA	Homo sapiens mRNA for KIAA1591 protein, partial cds	Homo saplens interleukin 4 receptor (IL4R), mRNA	Homo sapiens interleukin 4 receptor (IL4R), mRNA	Gallus gallus Dach2 protein (Dach2) mRNA, complete cds	Gallus gallus Dach2 protein (Dach2) mRNA, complete cds	Homo sepiens glutathione synthetase (GSS) mRNA	Homo sapiens supervillin (SVIL), transcript variant 1, mRNA	Homo sapiens supervillin (SVIL), transcript variant 1, mRNA	Homo sapiens galactosylceramidase (Krabbe disease) (GALC), mRNA	Homo sapiens galactosylceramidase (Krabbe disease) (GALC), mRNA	Homo sapiens mRNA for KIAA1059 protein, partial cds	RC3-NN0066-270400-011-c04 NN0066 Homo sapiens cDNA	Homo sapiens mRNA for KIAA1093 protein, partial cds	AU121585 MAMMA1 Homo sapiens cDNA clone MAMMA1000490 5'	Gallus gallus Dach2 protein (Dach2) mRNA, complete cds	CM1-HT0282-111199-042-h10 HT0282 Homo sapiens cDNA	qg61b07.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1839637 5' similar to contains element	MEK.ZZ repetitive element ;	6012/60/1F1 NIH MGC_20 Home sabiens cDNA clone (MAGE:3617105 5)	Homo sapiens CD39-like 4 (CD39L4) mRNA	Ca2+/calmodulin-dependent protein kinase IV kinase Isoform (rats, brain, mRNA, 3429 nt)	Ca2+/calmodulin-dependent protein kinase IV kinase Isoform (rats, brain, mRNA, 3429 nt)	Homo sapiens NKG2D gene, exon 10	Homo sapiens chromosome 21 segment HS21C046	601649284F1 NIH_MGC_73 Homo sapiens cDNA clone IMAGE:3932997 5'	601191927F1 NIH_MGC_7 Hamo sapiens cDNA clone IMAGE:3535855 5'	Homo sepiens \$164 gene, partial cds; PS1 and hypothetical protein genes, complete cds; and \$171 gene, partial cds
Evol Liona	Top Hit Database Source	EST_HUMAN	LΝ	Į.	F	N	N-	LN	LN	NT	NT	LN.	LN	LN	LN LN	N	EST_HUMAN	LN	EST HUMAN	LN⊤	EST_HUMAN		ES HUMAN	EST_HUMAN	LN.	L	LN	FZ	LZ LZ	EST_HUMAN	EST_HUMAN	NT
eifiliic	Top Hit Acession No.	.0E-73 AW898081.1	4502582 NT	7689539 NT	7669539 NT	2.0E-73 AB046811.1	11431471 NT	11431471 NT	2.0E-73 AF198349.1	2.0E-73 AF198349.1	4504168 NT	11496980 NT	11496980 NT	4557612 NT	4557612 NT	2.0E-73 AB028982.1		2.0E-73 AB029016.1	.0E-73 AU121585.1	.0E-73 AF198349.1	.0E-73 BE151283.1		1.0E-/3 Al14/42/.1	.0E-73 BE385477.1	4557426 NT	583194.1	8.0E-74 S83194.1	.0E-74 AJ001689.1	.0E-74 AL163248.2	.0E-74 BE967432.1	.0E-74 BE286305.1	.0E-74 AF109907.1
	Most Similar (Top) Hit BLAST E Value	2.0E-73	2.0E-73	2.0E-73	2.0E-73	2.0E-73	2.0E-73	2.0E-73	2.0E-73	2.0E-73	2.0E-73	2.0E-73	2.0E-73	2.0E-73	2.0E-73	2.0E-73	2.0E-73	2.0E-73	1.0E-73	1.0E-73	1.0E-73	1	1.0E-73	1.0E-73	8.0E-74	8.0E-74 S83194.1	8.0E-74	7.0E-74	7.0E-74	7.0E-74	7.0E-74	6.0E-74
	Expression Signal	2.46	2.05	99.0	99:0	6.35	1.52	1,52	0.68	0.68	1.48	1.18	1.18	3.48	3.48	1.85	2.75	1,41	1.74	0.97	1.05		1.41	3.93	2.42	1.87	1.87	3.28	1.18	2.49	6.87	4.55
	ORF SEQ ID NO:		28305	28686	28687	32011	32207	32208	34928				35881	36472	36473	36502		30825	26953	27661	31885						31436	27133	28456	34687	30918	26275
	SEQ ID		15827	16208	16208	19204	19392	19392	21977	21977	22814	22885	22885	23451	23451		l I		14408	15089	19100	0000	87817	23023	13389	18690	18690		15979	21744	24510	13764
	Probe SEQ ID NO:	1989	3215	3604	3604	2099	6801	6801	9451	9451	10320	10391	10391	10933	10933	10962	12096	12665	1818	2525	9200	3	20 5	11325	770	6073	6073	1992	3371	9167	12323	1161

WO 01/57277

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Top Hit Descriptor S0728362/FT NIH_MGC_44 Home sapiens cDNA clone IMAGE:2700838 3' S0728362/FT NIH_MGC_44 Home sapiens cDNA clone IMAGE:3805433 5' S0728362/FT NIH_MGC_44 Home sapiens cDNA clone IMAGE:3805433 5' S0728362/FT NIH_MGC_44 Home sapiens cDNA clone IMAGE:3805433 5' S0728362/FT NIH_MGC_44 Home sapiens cDNA clone IMAGE:37093863 3' UI-H3010-ash-h-03-cU.II st NCI_CGAP_Sub1 Home sapiens cDNA clone IMAGE:27093863 3' NF54-911-XT NCI_CGAP_KIG11 Home sapiens cDNA clone IMAGE:312332 3' NF54-911-XT NCI_CGAP_KIG11 Home sapiens cDNA clone IMAGE:312332 3' NF54-911-XT NCI_CGAP_KIG11 Home sapiens cDNA clone IMAGE:312332 3' NF54-911-XT NCI_CGAP_KIG11 Home sapiens cDNA clone IMAGE:312332 3' NF0-011-XT NCI_CGAP_KIG11 Home sapiens cDNA clone IMAGE:312332 3' NF0-011-XT NCI_CGAP_KIG11 Home sapiens cDNA clone IMAGE:3483704 5' Home sapiens DEAD/H (Asp-Glu-Alle-Asp/His) box polypeptide 11 (S. cerevisies CHL1-like helicase) (DDX11) mRNA Home sapiens and Immediate for Cochies Home sapiens cDNA Home sapiens plocystopia probability close Home sapiens cDNA Home sapiens plocystopia probability close L/1322 (FL/13222), mRNA Home sapiens mRNA for HP-I H-sapiens mRNA for HIP-I H-sapiens probability p	Database Source Source T HUMAN	Top Hit Acession No. No. No. No. AW 263177.1 BE388260.1 BE388260.1 AW014039.1 AW014039.1 AW014039.1 AW014039.1 AW014039.1 AW014039.1 AW014039.1 AW014039.1 AW014039.1 AW020986.1 AW362759.1 AW362759.1 AB02699.1 AB02699.1 AB02699.1 AB02699.1 AB02699.1 AB02699.1 AB02699.1 AB02699.1		Skignes	Β̈́ O		5.005 5.
Homo sapiens mKNA for KIAA1168 protein, partial cds	L	4.0E-74 AB032994.1		1.21	27325	14755	2178
Homo sapiens mRNA for KIAA1168 protein, partial cds	LN.		4 OF. 74			Į.	24.70
TOTIO SEPTENS PROGRESOME (Province, medicipating, being type, 1 (Totivior) Illinora	Z	76197				_	211/1
forms carians prodesome (higher memory) submit hele has 1 (PSMR1) mRNA	114	4508102				L	2007
tomo sapiens proteasome (prosome, macropain) subunit, beta type, 1 (PSMB1) mRNA	¥	4506192	4.0E-74		L	L	2117
omplete cds)							2005
formo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes,						L	
omplete cds)	NT		4.0E-74				2005
forno sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes,							
lomo sapiens mRNA for KIAA1019 protein, partial cds	۲						885
iomo sapiens DNA for amyloid precursor protein, complete cds	뉟				L	L	301
i.sapiens mRNA for HIP-i			5.0E-74				10614
i sapiens mRNA for HIP-I		Y09420.1	5.0E-74				10614
iomo sabiens hypometical protein FLJ15222 (FLJ15222), micha	Ž	11345483	5.0E-74			_	286
down capiers hypothetical postering El 143222 (El 143222) mBNA		44245400	E 00 74		L	Ł	0000
tomo sapiens KIAA0716 gene product (KIAA0716), mRNA		7662263	5.0E-74	3.35	Ŀ	L	6976
lomo sapiens interleukin 4 receptor (IL4R), mRNA			5.0E-74	2.33		18684	6067
lomo sapiens interleukin 4 receptor (IL4R), mRNA			5.0E-74				6067
nd translated products	LΝ	4507866	5.0E-74				6004
lomo saplens VAMP (vesicle-associated membrane protein)-associated protein A (33kD) (VAPA) mRNA,							
sapiens mRNA for TPCR18 protein	IN			11.6			5961
iomo sapiens phosphatidylinositol glycan, class L (PIGL), mRNA	LN	11425417	5.0E-74			L	5803
Mo-CT0289-271099-001-h07 CT0289 Hamo sapiens cDNA	T_HUMAN	AW362756.1	5.0E-74	4.42		L	2726
117c09,y1 Morton Felal Cochiea Homo sapiens cDNA clone IMAGE:2483704 5	HUMAN		5.0E-74	1.37	L	L	938
lomo sapiens actin filament associated protein (AFAP), mRNA		11056013	6.0E-74	3.28			5568
DDX11) mRNA	NT	4758135	6.0E-74			17744	5177
Iomo saplens DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 11 (S.cerevisiae CHL1-like helicase)							
DDX11) mRNA	\ V	4758135	6.0E-74			_	5177
Iomo sapiens DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 11 (S.cerevislae CHL1-like helicase)							Γ
r54e11.x1 NCI_CGAP_Kld11 Homo sapiens cDNA clone IMAGE:3132332 3'	EST_HUMAN	BE048846.1	6.0E-74	1.64			3775
r54e11.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3132332 3'	EST_HUMAN		6.0E-74	1.64		١,	3775
II-H-BI0-aah-h-03-0-UI.s1 NCI_CGAP_Sub1 Homo sapiens cDNA clone IMAGE:2709365 3*	EST_HUMAN		6.0E-74				2889
JI-H-BI0-aah-h-03-0-UI.s1 NCI_CGAP_Sub1 Homo sepiens cDNA clone IMAGE:2709365 3'		AW014039.1	6.0E-74	1.22			2889
01283521F1 NIH_MGC_44 Home sapiens cDNA clone IMAGE:3605453 5		BE388260.1	6.0E-74				2355
01283521F1 NIH_MGC_44 Home sapiens cDNA clone IMAGE:3605453 5	П	BE388260.1	6.0E-74			Į	2355
	T					1	
n78g07.x1 Soares_NFL_T_GBC_S1 Homo saplens cDNA clone IMAGE:2700636 3'	T	AW 263177.1	6.0E-74	0.9	L	L	1668
Top Hit Descriptor	Source	o Z	BLAST E Value	Signal			
Ton Hit Descriptor	Top Hit	Top Hit Acession	Most Similar (Top) Hit	Expression			

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Table 4
Single Exon Probes Expressed in Fetal Liver

Top Hit Acession Database Source Source	ΤN	NT	NT	32183 NT	LN	LN	EST_HUMAN	9966912 NT Homo sapiens ectin-related protein 3-beta (ARP3BETA), mRNA	EST_HUMAN	EST_HUMAN	M91 NT	M91 NT	INT	wx51e07.x1 NCI_CGAP_Lu28 Homo sapiens cDNA clone IMAGE:2547204 3' similar to SW:GG95_HUMAN C08379 GOLGIN-95, contains element MER22 repetitive element:		Homology (EGFR) mRNA	85198 NT	N⊤	LN	NT	EST_HUMAN	9587 NT	9587 NT		11439587 NT Homo sapiens PDZ-73 protein (PDZ-73/NY-CO-38), mRNA	EST_HUMAN	LN	LΝ	EST_HUMAN	EST_HUMAN	7657334 NT Homo sapiens Misshapen/NIK-related kinase (MINK), mKNA
Top Hit Acession No.			4.0E-74 AL163247.2 N	7662183 N			3.0E-74 AA300378.1 ES	9966912 N		Γ	7669491 N	2.0E-74 7669491 N			Ī	4885198 N	4885198 N	2.0E-74 AL355092.1 N				9587	9587	11439587 N	11439587 N	E-74 BF030788.1 E	E-74 AB037816.1 N	E-74 AL163204.2		E-74 BF66558.1	7657334 N
Most Similar (Top) Hit BLASTE Value	4.0E-74	4.0E-74	4.0E-74	4.0E-74	4.0E-74 Z17227.1	4.0E-74	3.0E-74	3.0E-74	3.0E-74 M78984.1	3.0E-74	2.0E-74	2.0E-74	2.0E-74	2 OF-74 4	2.00-1.4	2.0E-74	2.0E-74	2.0E-74	2.0E-74	2.0E-74	2.0E-74 E	2.0E-74	2.0E-74	2.0E-74	2.0E-74	2.0E-74	2.0E-74	2.0E-74 /	2.0E-74	2.0	1.0E-74
Expression Signal	4.58	1.14	1.01	1.71	0.79	0.61	21.13	0.47	2.47	2.42	172.8	172.8	0.92	1 84	5	4.17	4.17			3,93		2.03	2.03	2.72	2.72	1.3	1.58		3.9		2.04
ORF SEQ ID NO:	28210		29181	l	29748	30164		33971	34841				26332			26764				30156										30882	
Exon SEG ID NO:	15741	16184			ı				21894	ı	ı	l	ı	1		14231	14231	17719	17719			L	L	L	24755	_		L	1	1	12737
Probe SEQ ID NO:	3127	3580	4138	4655	4720	5168	8486	8510	9294	10241	883	86 86	1217	1,007	/07	1639	1639	5149	5149	5155	9969	9055	6055	6120	6120	7160	7881	9304	12033	12605	57

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Table 4
Single Exon Probes Expressed in Fetal Liver

_		_	_	_		-,			_	•	_	_		_		_	_	_	_	_	_	_	_		-		\neg		Т	_			$\overline{}$	_
	Top Hit Descriptor	QV4-ST0234-181199-037-705 ST0234 Homo sapiens cDNA	Homo sapiens hypothetical protein FLJ11026 (FLJ11026), mRNA	Homo sapiens beta 2 gene	Homo saplens zinc finger protein 259 (ZNF259) mRNA	Homo sapiens chromosome 21 segment HS21C048	Homo sapiens DNA for Human P2XM, complete cds	Homo sapiens mannosidase, alpha, class 2A, member 1 (MAN2A1), mRNA	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA	Homo sapiens glutamate receptor, tonotropic, kainate 1 (GRIK1) mRNA	Homo sapiens chromosome 21 segment HS21C068	RC2-BT0642-270300-019-f06 BT0642 Hamo sapiens cDNA	hz73h08.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3213663 3' similar to WP:B0511.12 CE17351 ;	Homo sapiens DCRR1 mRNA, partial cds	Human neurofibromin (NF1) gene, complete cds	Homo sapiens KIAA0852 protein (KIAA0852), mRNA	601070088F1 NIH_MGC_12 Homo sapiens cDNA clone iMAGE:3458280 5'	601070088F1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3458280 5'	Homo sapiens tracheal epithelium enriched protein (PLUNC) gene, complete cds	MR0-HT0559-230500-021-e03 HT0559 Homo sapiens cDNA	Homo sapiens hypothetical protein FLJ10783 (FLJ10783), mRNA	Homo sapiens glutathione S-transferase theta 2 (GSTT2), mRNA	Homo sapiens glutathione S-transferase theta 2 (GSTT2), mRNA	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1)	genes, complete cds	Homo sapiens DNA cytosine-5 methyltransferase 3B (DNMT3B) mRNA, complete cds	Homo sapiens chromosome 21 segment HS21C002	aj26c06.s1 Soares_testis_NHT Homo sapiens cDNA clone 1391626 3' similar to TR:Q15377 Q15377 Y-	CHROMOSOME RNA RECOGNITION MOTIF PROTEIN;	601126068F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:2989865 5'	zo17e08.r1 Stratagene colon (#937204) Homo sapiens cDNA clone IMAGE:587174 5'	801346909F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3687458 5'	601346909F1 NIH_MGC_8 Homo saplens cDNA clone IMAGE:3687458 51	602186616T1 NIH_MGC_49 Homo sapiens cDNA clone IMAGE:4298738 3
	Top Hit Datebase Source	EST_HUMAN	LX.	LN	NT	⊥N	LN	LN	TN	TN	NT	EST_HUMAN	EST HUMAN	LN	FN	LΝ	EST_HUMAN	EST_HUMAN	ΤN	EST_HUMAN	LN	N	NT		FN	TN	LN-		EST_HUMAN	EST_HUMAN	EST_HUMAN	EST HUMAN	EST_HUMAN	EST HUMAN
	Top Hit Acession No.	1.0E-74 AW816405.1	8922829 NT	1-	4508020 NT	1.0E-74 AL163246.2	1.0E-74 AB002059.1	4758697 NT	4504118 NT	4504116 NT		1.0E-74 BE083080.1	1.0E-74 BE467769.1	383327.1	M89914.1	11417977 NT	1.0E-74 BE549105.1	E-74 BE549105.1	E-74 AF214562.1	E-74 BF351951.1	11420549 NT	11417856 NT	11417858 NT		E-74 AF240786.1	E-75 AF176228.1	E-75 AL163202.2		E-75 AA789285.1	E-75 BE272325.1	E-75 AA132611.1	E-75 BE561655.1	E-75 BE561655.1	E-75 BF690254.1
	Most Similar (Top) Hit BLAST E Value	1.0E-74	1.0E-74	1.0E-74 X02344.	1.0E-74	1.0E-74 /	1.0E-74	1.0E-74	1.0E-74	1.0E-74	1.0E-74	1.0E-74	1.0E-74 E	1.0E-74 D83327.1	1.0E-74 M89914.1	1.0E-74	1.0E-74	1.0E-74	1.0E-74	1.0E-74	1.0E-74	1.0E-74	1.0E-74		1.0E-74	8.0E-75	8.0E-75		6.0E-75	5.0E-75	5.0E-75	5.0E-75	5.0E-75	5.0E-75
	Expression Signal	4.11	0.92	10.17	1.88	2.13	3.73	2.7	0.63	0.63	6.11	0.78	0.75	1.67	1.51	1,23	0.74	0.74	7.81	0.61	1.37	1.95	3.39		1.59	4.06	2.18		1.01	2.15	0.62	8.0	0.8	1.39
	ORF SEQ ID NO:	25491				26159						29182		30326	32211							37144	ĺ							34301		34599		34842
	SEQ ID	13008	13157	ı	13254	13647	ĺ	15786	16592	16592	16638	16729	i i	1			l	L.	L	21307	22870	İ.,		L					17935	21378	21582	21658		21895
	Probe SEQ ID NO:	359	525	532	627	1037	2268	3173	3994	3994	4040	4137	4354	5351	9089	7622	9000	8000	8740	8768	10378	11659	11746		12400	2670	12056		5376	8839	9045	9122	9122	9295

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit B∟AST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
10133	22628	35616	2.5	5.0E-75	DE-75 A1638623.1	EST_HUMAN	tt31c12.x1 NCI_CGAP_GC6 Homo sepiens cDNA clone IMAGE:2242390 3' similar to TR:P97361 P97361 HYPOTHETICAL 20.1 KD PROTEIN ;
117	12788	25270	1.81	4.0E-75	DE-75 BE081333.1	EST_HUMAN	QV1-BT0632-210200-079-e02 BT0632 Homo sapiens cDNA
484		Ш	1.21	4.0E-75	0E-75 N36757.1	EST_HUMAN	yx80h08.r1 Soares melanocyte 2NbHM Homo sapiens cDNA clone IMAGE:269055 5'
1802	14392	26937	1.43	4.0E-75	0E-75 AW897230.1	EST_HUMAN	CM0-NN0057-150400-335-a11 NN0057 Homo sapiens cDNA
2874		27962	5.4	4.0E-75	4.0E-75 BE409484.1	EST_HUMAN	601303868F1 NIH_MGC_21 Homo saplens cDNA clone IMAGE:3638344 5'
5720			12.0	4.0E-75	11417946 NT	LN	Homo sapiens NIPSNAP, C. elegans, homotog 1 (NIPSNAP1), mRNA
5720	18346		12.0	4.0E-75	11417946 NT	NT	
6415			5.28	4.0E-75		TN	Homo sapiens eukaryotic translation initiation factor 3, subunit 8 (110kD) (EIF3S8), mRNA
6856			1.84	4.0E-75	11417948 NT	NT	Homo sapiens NIPSNAP, C. elegans, homotog 1 (NIPSNAP.1), mRNA
6856	li			4.0E-75	11417946 NT	NT	Homo sapiens NiPSNAP, C. elegans, homolog 1 (NiPSNAP1), mRNA
10565					7669505 NT	NT	Homo sapiens myosin, heavy polypeptide 1, skeletal muscle, adult (MYH1), mRNA
1040	li	26162				LN	Homo sapiens HTRA serine protease (PRSS11) gene, complete cds
1041	H		80'6	3.0E-75		ΙN	Homo sapiens HTRA serine protease (PRSS11) gene, complete cds
1876				3.0E-75	AB011153.1	NT	Homo sapiens mRNA for KIAA0581 protein, partial cds
2158				3.0E-75	3.0E-75 4507334 NT	NT	Homo sapiens synaptojanin 1 (SYNJ1), mRNA
2467	15034	27601	3.11	3.0E-75	4759153 NT	IN	Homo sapiens synaptosomal-associated protein, 29kD (SNAP28) mRNA
3056	15672	28148	9.05	3.0E-75		TN	Homo sapiens chromosome 21 segment HS210001
3223	15835	28313	1.12	3.0E-75	3.0E-75 AB011153.1	NT	Homo sapiens mRNA for KIAA0581 protein, partial cds
3393		28480	C8.0	3.0E-75	M72393.1	TN	Human calcium-dependent phospholipid-binding protein (PLA2) mRNA, complete cds
3393				3.0E-75	0E-75 M72393.1	L	Human calcium-dependent phospholipid-binding protein (PLA2) mRNA, complete cds
4530		29558		3.0E-75	7662421 NT	۲	Homo sapiens KIAA0971 protein (KIAA0971), mRNA
5367			0.61	3.0E-75	AL 1632	NT	Homo sapiens chromosome 21 segment HS21C009
5458				3.0E-75		NT	Homo saplens adaptor-related protein complex 1, sigma 2 subunit (AP1S2), mRNA
5458	18093	30410	1.01	3.0E-75	11420956 NT	۲ _۲	Homo sapiens adaptor-related protein complex 1, sigma 2 subunit (AP1S2), mRNA
6867	19601	32432	1.42	3.0E-75	11526319 NT	N	Homo sapiens HIR (histone cell cycle regulation defective, S. cerevisiae) homolog A (HIRA), mRNA
6867	19601	32433	1.42	3.0E-75	11526319 NT	Į.	Homo sapiens HIR (histone cell cycle regulation defective, S. cerevislae) homolog A (HIRA), mRNA
7189	19721		4.6		7662209 NT	TN	Homo sapiens KIAA0623 gene product (KIAA0623), mRNA
7189		32569	4.6		7662209 NT	NT	Homo sapiens KIAA0623 gene product (KIAA0623), mRNA
7618				3.0E-75		Z	Homo sapiens Oncogene TIM (TIM) mRNA
7618			3.35		4885632 NT	N	Homo sapiens Oncogene TIM (TIM) mRNA
8915	21453	34374		3.0E-75	11420804 NT	NT	Homo sapiens snall 1 (drosophila homolog), zinc finger protein (SNAI1), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEO ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor .
9090	90000	25050	0		TIM COCCOCATA		Dans marian December Vale Has marked APE And ADMA
3	1						TOTAL SEPTEMENT OF THE PROPERTY OF THE PROPERT
10435	22929	35936	3.75	3.0E-75	11436430 NT	F	Homo sapiens synuclein, elpha (non A4 component of amyloid precursor) (SNCA), mRNA
5853	18477		1.45	2.0E-75	2.0E-75 AV734680.1	EST_HUMAN	AV734680 cdA Homo sapiens cDNA clone cdABED02 5'
8685	21224	34144	2.43		2.0E-75 Al311783.1	EST HUMAN	qo91e02.x1 NCI_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1915898 3' similar to TR:Q69386 Q68386 POL/ENV GENE
							xg60d02.x1 NCI_CGAP_Ut4 Homo sapiens cDNA clone IMAGE:2832707 3' similar to contains PTR7.11
2341				1.0E-75	1.0E-75 AW 168135.1	EST HUMAN	PTR7 repetitive element;
2973	15589	28072	3.23	1 0E-75	1.0E-75 X52221.1	LN ⊢	H.sapiens ERCC2 gene, exons 1 & 2 (partial)
5356	17916		0.57	1.0E-75	1.0E-75 BE894192.1	EST_HUMAN	601437130F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3922303 5'
8353	20893		13.67	1.0E-75	1.0E-75 AA389270.1	EST HUMAN	257h03.s1 Soares, testis, NHT Homo sapiens cDNA clone IMAGE:726485 3' similar to gb:M13832 40S RIBOSOMAL PROTEIN S17 (HUMAN);
9349	l	34812		1.0E-75	1.0E-75 BF313645.1	EST HUMAN	601900294F1 NIH MGC 19 Homo sapiens cDNA clone IMAGE:4129678 5'
9349	1			1.0E-75	1.0E-75 BF313845.1	EST_HUMAN	601900294F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4129678 5'
10763	23287		6.58	1.0E-75	1.0E-75 AA684377.1	EST_HUMAN	ac77b08.s1 Stratagene lung (#937210) Homo sapiens cDNA clone IMAGE:888589 3'
							Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively
10970	23485			1.0E-75	1.0E-75 AF223391.1	LN L	peojids
11945	17916	30331	2.58	1.0E-75	1.0E-75 BE894192.1	EST_HUMAN	601437130F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3922303 5
84	12728	25191	2.19	9.0E-76	9.0E-76 AI652648.1	EST_HUMAN	w630b10.xf NCL_CGAP_GC6 Homo saplens cDNA clone IMAGE:2307163 3' similar to TR:075235 075235 TRAP1;
							wb30b10.xf NCI_CGAP_GC6 Hamo sapiens cDNA clane IMAGE:2307163 3' similar to TR:075235 075235
£	12728			1	9.0E-76 AI652648.1	EST HUMAN	IKAPI
9815			62.44	9.0E-76	9.0E-76 M12937.1	LV.	Human fertitin Heavy subunit mRNA, complete cds
154	12817			8.0E-76	AF15483	L	Homo sapiens carbamyl phosphate synthetase I mRNA, complete cds
974	13586					NT	Homo sapiens H factor 1 (complement) (HF1) mRNA
974			Ť			N	Homo sapiens H factor 1 (complement) (HF1) mRNA
2835	15551			8.0E-76	7706724 NT	LN	Homo sapiens mediator (Sur2), mRNA
6319	18926		5.69	8.0E-78	11421442 NT	NT	Homo sapiens LIM domain kinase 1 (LIMK1), mRNA
7500				8.0E-76	11435215 NT	NT	Homo sapiens serine/threonine klnase 2 (STK2), mRNA
1567				8.0E-76	11419212 NT	N	Homo sapiens mitochondrial carrier family protein (LOC55972), mRNA
8237		66988	0.81	8.0E-76	11416961 NT	LN	Homo sapiens AIM-1 protein (LOC51151), mRNA
10280	il			8.0E-76	8.0E-76 M13792.1	LNT	Human adenosine deaminase (ADA) gene, complete cds
10546		36097	7.29	8.0E-76		IN	Homo sapiens baculoviral IAP repeal-containing 6 (BIRC6), mRNA
12305	24501		2.28	8.0E-76	11417862 NT	Ā	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Detabase Source	Top Hit Descriptor
808	13425	25931	2.84	7.0E-76	5016092 NT	LΝ	Homo sapiens dihydrolipoamide dehydrogenase (E3 component of pyruvate dehydrogenase complex, 2-oxoglutarate complex, branched chain keto acid dehydrogenase complex) (DLD) mRNA
3333	15943	28418	3.23	7.0E-76	7.0E-76 AF056490.1	LN	Homo sapiens cAMP-specific phosphodiesterase 8A (PDE8A) mRNA, partial cds
3339	15949	28425	5.78	7.0E-78	4505052 NT	NT	Homo sapiens lymphocyte antigen 75 (LYT5) mRNA, and translated products
3379	15988	28467	1.89	7.0E-76	4757915 NT	L	Homo sapiens core-binding factor, runt domain, alpha subunit 2; translocated to, 1; cyclin D-related (CBFAZT1) mRNA
4461	ı	29490	6.32	7.0E-78	4507184 NT	LN.	Homo sapiens sepiapterin reductase (7,8-dihydrobiopterin:NADP+ oxidoreductase) (SPR) mRNA
4481	17047	29491	6.32	7.0E-76	4507184 NT	NT	Homo sapiens sepiapterin reductase (7,8-dihydrobiopterin:NADP+ oxidoreductase) (SPR) mRNA
1277	13872		30.59	6.0E-76	E-76 BE396253.1	EST_HUMAN	601312019F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3658757 5'
11340		36047	2.97	6.0E-76	6.0E-76 BE273201.1	EST_HUMAN	601142253F1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3506029 5'
1986	14568	27128	8.39	5.0E-76	5.0E-76 D63874.1	TN	Human mRNA for HMG-1, complete cds
1986	14568	27129	8.39	5.0E-76	5.0E-76 D63874.1	LN	Human mRNA for HMG-1, complete cds
1986	14568	27130	8.39	5.0E-76	E-76 D63874.1	TN	Human mRNA for HMG-1, complete cds
3242	15854	28336	89'0	4.0E-76	E-76 BE814096.1	EST_HUMAN	QV3-BN0047-270700-283-g06 BN0047 Homo sapiens cDNA
5474	18108	30427	1.22	4.0E-76	E-76 BE 783412.1	EST_HUMAN	601471725F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3874470 5
9937	22432		5.79	4.0E-76	E-76 D81625.1	EST_HUMAN	HUM178G01B Human fetal brain (TFujiwara) Homo sapiens cDNA clone GEN-178G01 5'
2837	22432	35408	5.79	4.0E-76	E-76 D81625.1	EST_HUMAN	HUM178G01B Human fetal brain (TFujiwara) Homo sapiens cDNA clone GEN-178G015'
657	13280	25759	1.63	3.0E-76	3.0E-76 BF516262.1	EST_HUMAN	UI-H-BW 1-enz-b-04-0-UI.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3083862 3'
657	13280	25760	1.63	3.0E-76	E-76 BF516262.1	EST_HUMAN	UI-H-BW1-enz-b-04-0-UI.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3083862 3
1643	14235			3.0E-76		NT	Homo sapiens eukaryotic translation elongation factor 1 bela 2 (EEF1B2) mRNA
1643			7.45	3.0E-76	4503476 NT	NT	Homo sapiens eukaryotic translation elongation factor 1 beta 2 (EEF1B2) mRNA
3478	16082	28555	5.2	3.0E-76		EST HUMAN	RC5-ST0300-180100-033-A03 ST0300 Home sapiens cDNA
3476	16082			9.0E-76	E-76 BF375689.1	EST_HUMAN	RC5-ST0300-180100-033-A03 ST0300 Homo sapiens cDNA
5447	18018	37140	2.41	3.0E-76	E-76 Z41314.1	EST_HUMAN	HSCZQD042 normalized infant brain cDNA Homo sapiens cDNA clone c-zqd04 3'
9003	10620	33016	80.4		2 00 78 00 14 4	HAMILL FOO	20/3007.r.1 Strategene pancreas (#837208) Homo saplens cDNA clone IMAGE:592524 5' similar to
AFOR A		31801			3 0E-78 AF286508 1	10112	Homo saplens and ostatin hinding protein 1 mRNA complete ods
	L			20.0	N 42674 4	TOT LIBRARI	W. 20010. 1 Source melanocide 20 20 Law against a Child Alone MACE 2718/2 F.
600	1	١		5.0E-70	3 OF 76 AM 2003 53 4	NOW TO L	Type 10 to 10 CCAP Little Loren envision of DNA close IMACE 2772000
200	1	۱		3.0E-70	A 1 10000 I		Actual Control Control Supports Control Information
9696	1	١		3.0E-76	E-76 AA442309.1	EST_HOMAN	ZVS4011,71 Scares, resus, NH Homo Sapiens CUNA cione IMAGE: 75/461 5
9656	- 1			3.0E-76	3.0E-76 AA442309.1	EST HUMAN	zv54d11.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:757461 5
11849	- 1				3.0E-76 AW967984.1	EST HUMAN	EST380059 MAGE resequences, MAGJ Homo sapiens cDNA
11760	25090	30501	4.85		3.0E-76 AW956455.1	EST HUMAN	EST368525 MAGE resequences, MAGD Homo sapiens cDNA

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_		_	_	_	-	_	_	_	-	_	_		_	_	_	_	_	_		-	_	_		-	_	_	_			
	Top Hit Descriptor	Human mRNA for possible protein TPRDII, complete cds	Human mRNA for possible protein TPRDII, complete cds	Human mRNA for possible protein TPRDII, complete cds	Homo sapiens immunoglobulin (CD79A) binding protein 1 (IGBP1) mRNA	Homo sapiens glucagon (GCG) mRNA	Homo sepiens cAMP responsive element binding protein 1 (CREB1) mRNA	Homo sapiens GM2 ganglicalde activator protein (GM2A) mRNA	Homo sapiens GM2 ganglioside activator protein (GM2A) mRNA	zs60h11.s1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:701925 3'	OLFACTORY RECEPTOR-LIKE PROTEIN FS	zw64602.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:780986.3' similar to SW:1TB5_HUMAN P18084 INTEGRIN BETA-5 SUBUNIT PRECURSOR.	zw84e02.s1 Soares, testis_NHT Homo sepiens cDNA clone IMAGE:780986 3' similar to SW:1TB5_HUMAN P18094 INTEGRIN BETA-5 SUBUNIT PRECURSOR.	zu/0g11.fl Soares_testis_NHT Homo sapiens cDNA clone IMAGE:743398 5' similar to WP:R05D3.2 CE00281 :	Human mRNA for possible protein TPRDII, complete cds	QV3-OT0028-220300-132-b11 OT0028 Homo sapiens cDNA	Gorilla gorilla offactory receptor (GGO18) gene, partial cds	Homo sapiens mRNA for KIAA1081 protein, pertial cds	Homo sapiens KIAA0783 gene product (KIAA0783), mRNA	Homo sapiens TPCR86 protein (HSTPCR86P), mRNA	Homo sapiens similar to ribosomal protein S26 (H. sapiens) (LOC83150), mRNA	Homo sapiens HIRA interacting protein 4 (dnaJ-like) (HIRIP4), mRNA	Human mRNA for HMG-1, complete cds	Human mRNA for HMG-1, complete cds	601589898F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3944302 5'	EST37301 Embryo, 8 week I Homo sapiens cDNA 5' end	601512435F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3913737 5'	Homo sapiens protein phosphatase 2, regulatory subunit B (B56), gamma isoform (PPP2R5C) mRNA	601302333F1 NIH_MGC_21 Homo sepiens cDNA clone IMAGE:3838753 5	yp11h02.r1 Soares breast 3NbHBst Homo sapiens cDNA clone IMAGE:187155 5' similar to SP:ANKB_HUMAN Q01484 ANKYRIN, BRAIN VARIANT 1;
	Top Hit Database Source	Z	Z	N	Z	LZ	Z	١	ΙZ	EST_HUMAN	SWISSPROT	EST_HUMAN	EST HUMAN	EST HUMAN	N.	EST_HUMAN	L	۲.	Ā	LΖ	LN	NT	N	IN	EST_HUMAN	EST_HUMAN	EST_HUMAN	Ę	EST_HUMAN	EST_HUMAN
	Top Hit Acession No.	0E-76 D84295.1	0E-76 D84295.1	0E-76 D84295.1	4557662 NT	4503944 NT	4758053 NT	4504028 NT	4504028 NT	0E-76 AA253954.1	E-76 P23288	E-76 AA445992.1	DE-76 AA445992.1	4A400700.1	D84295.1	2.0E-78 AW879618.1	AF127845.1	AB029004.1	11421326 NT	11427410 NT	11437211 NT	7549807 NT	0E-76 D63874.1	DE-76 D63874.1)E-76 BE796537.1	E-76 AA333207.1	DE-77 BE889525.1	4506022 NT	E-77 BE410354.1	JE-77 R83144.1
	Most Similar (Top) Hit BLAST E Value	2.0E-76	2.0E-78	2.0E-78	2.0E-76	2.0E-78	2.0E-76	2.0E-78	2.0E-78	2.0E-76	2.0E-78	2.0E-76	2.0E-76	2.0E-78	2.0E-78	2.0E-78	2.0E-76	2.0E-78	2.0E-76	2.0E-76	2.0E-76	2.0E-78	1.0E-78	1.0E-78	1.0E-76	1.0E-78	9.05-77	9.05-77	9.0E-77	8.0E-77
	Expression Signal	1.1	2.12	2.12	1.12	1.45	1.57	0.99	66.0	1.04	2.64	2.3	2.3	0.7	0.62	7.33	96:0	4.95	0.72	1.84	7.63	2.79	4.17	4.17	5.55	7.0	4.41	1.68	1.9	1.36
	ORF SEQ ID NO:		25495			L						28422	28423	28893		96008		31147		33057					30741		32320	36667		25344
	Exan SEQ ID NO:	12958	13013	13013	13119	13243	13673	14178	14178		15485	15946	15946	16431	12958	17655	18145			20170		23324	16972	16972	18268	18994	19501	23625	24599	12860
	Probe SEQ ID NO:	303	364	384	486	618	1068	1583	1583	1972	2867	3336	3336	3832	4215	5082	5512	5803	7442	7658	10182	10801	4385	4385	5639	6391	7003	11115	12474	200

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Top Hit Descriptor	601866926F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4109503 5'	Homo saplens proteasome (prosome, macropain) 26S subunit, non-ATPase, 7 (Mov34 homolog) (PSMD7) mRNA	ze62e02.r1 Soares retina N2b4HR Homo sapiens cDNA clone IMAGE:363578 5'	ze62e02.r1 Soares retina N2b4HR Homo sapiens cDNA clone IMAGE:363578 5'	ye69f04.s1 Soares fetal liver spleen 1NFLS Homo sepiens cDNA clone IMAGE:123007.3' similar to contains MER10 repetitive element;	zu81g01.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:745392 3'	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide E (25kD) (POLR2E) mRNA	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide E (25kD) (POLR2E) mRNA	Homo sapiens Interferon (alpha, beta and omega) receptor 2 (IFNAR2) mRNA	EST369823 MAGE resequences, MAGE Homo sapiens cDNA	qe77h12.x1 Soares_fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE:1745063 3'	Homo sapiens carbamyl phosphate synthetase I mRNA, complete cds	Homo sapiens carbamyl phosphate synthetase I mRNA, complete cds	7 Homo sapiens glucokinase (GCK) gene, exon 2	Homo saplens disintegrin and metalloprotease domain 10 (ADAM10) mRNA	Homo sapiens cullin 1 (CUL1) mRNA	Homo saplens ublquitin specific protease 18 (USP18), mRNA	Homo sapiens EGF-like repeats and discoidin I-like domains 3 (EDIL3), mRNA	Homo sapiens EGF-like repeats and discoidin I-like domains 3 (EDIL3), mRNA	DKFZp434G1728_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434G1728 5'	ak33905.s1 Sogres_testis_NHT Homo saplens cDNA done IMAGE:1407728 3' similar to contains Alu	ביים ביים ביים ביים ביים ביים ביים ביים	Homo sapiens protein kinase C beta-II type (PKKCBI) mKNA, complete cds	H.sapiens mRNA for ubiquitin hydrolase	H.sapiens mRNA for ubiquitin hydrolase	Homo sapiens 3-hydroxyisobutyryl-Coenzyme A hydrolase (HIBCH), mRNA	Homo sapiens 3-hydroxyisobutyryl-Coenzyme A hydrolase (HIBCH), mRNA	Homo sapiens sorting nextn 5 (SNX5), mRNA	Homo sapiens sorting nextn 5 (SNX5), mRNA	Human mRNA for KIAA0299 gene, partial cds	Human mRNA for KIAA0299 gene, partial cds	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA
Top Hit Database Source	EST_HUMAN		T HUMAN	Г						EST_HUMAN	EST_HUMAN	NT	NT	ΙN						EST_HUMAN		NC NC NC								NT		
Top Hit Acession No.	0E-77 BF205181.1	4506230 NT	AA019770.1	8.0E-77 AA019770.1	DE-77 R00245.1	DE-77 AA625755.1	4505944 NT	4505944 NT	6.0E-77 4504600 NT	E-77 AW957753.1	A1204066.1	AF154830.1	AF154830.1	5.0E-77 AF041015.1	4557250 NT	4503160 NT	8394518 NT	5031660 NT	5031660 NT	DE-77 AL043953.1	E 77 AA861194 1	14001104.1	5.0E-77 M13975.1	X98296.1	X98296.1	11428849 NT	11428849 NT	11421928 NT	11421928 NT	5.0E-77 AB002297.1	AB002297.1	5730038 NT
Most Similar (Top) Hit BLAST E Value	8.0E-77	8.0E-77	8.0E-77	8.0E-77	8.0E-77			77-30.7	6.0E-77	6.0E-77	6.0E-77	5.0E-77	5.0E-77	5.0E-77	5.0E-77	5.0E-77	5.0E-77	5.0E-77	5.0E-77	5.0E-77	E 0E 77	3.05-77	5.0E-//	5.0E-77	5.0E-77	5.0E-77	5.0E-77	5.0E-77	5.0E-77	5.0E-77	5.0E-77	3.0E-77
Expression Signal	1.27	2.93	2.67	2.67	21.88	2.58	1.98	1.98	3.52	3.04	2.97	3.77	3.77	1.69	1.53	0.98	1.03	1.08	1.08	2.22	1 77	1	0.0	88.0	0.75	1.07	1.07	3.52	3.52	0.51	0.51	1.12
ORF SEQ ID NO:	29652	30747			30916		27593	27594	25426		26716						28661	29842	29843		YBEUE		32447			33773						27160
Exen SEQ ID NO:	17203	18273	23792	23792	24585	ı		15022				12819	12819			l I	16178	17391	17391	17644	4707B	1	- 1	19892	19892	20850	20850	21945				14597
Probe SEQ ID NO:	4620	5644	11264	11264	12451	1973	2455	2455	284	1181	1590	156	156	1279	1404	2792	3574	4813	4813	5071	5410	0 0 0	6/20	7366	7592	8309	8308	9489	9489	10385	10385	2015

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Table 4
Single Exon Probes Expressed in Fetal Liver

Probe Exon SEQ ID NO: NO: NO: NO: NO: NO: NO: NO: NO: NO:	g G	Spiens	Σ, B	Top Hit Acession No. 5730038 H65167.1 H65167.1 H65167.1 A017333.1 A017333.1 A017333.1 A1017333.1 A1013519.1 A1013519.1 A1013519.1 A1013519.1 A1013519.1 BE208940.1 BE208940.1 BE7087143.1	Top Hit Detabese Source NT EST HUMAN EST HUMAN EST HUMAN EST HUMAN EST HUMAN EST HUMAN EST HUMAN EST HUMAN EST HUMAN EST HUMAN EST HUMAN EST HUMAN EST HUMAN EST HUMAN EST HUMAN EST HUMAN EST HUMAN	Top Hit Descriptor Top Hi
1 1		6.0		Al362707.1	EST_HUMAN	qy70c09.x1 NCI_CGAP_Bm25 Home sapiens cDNA clone IMACE: 2017360 3' similar to WP:F29D11.1 CE05765 LOW DENSITY LIPID RECEPTOR-RLATED PROTEIN :
9447 21 9447 21	21973 34924 21973 34925 22403 35377	4.56	2.0E-77 2.0E-77 2.0E-77	2.0E-77 U50321.1 2.0E-77 U50321.1 2.0E-77 RF310349.1	NT NT EST HUMAN	Human protein kinase C substrate 80K-H (PRKCSH) gene, exon 7 Human protein kinase C substrate 80K-H (PRKCSH) gene, exon 7 601895183F1 NIH MGC 19 Homo septens cDNA clone IMAGE:4124541 5'
ı	╛		Z.UE-11	7	٦	OU 1090 I 001 I NIT MICC. TO THE BEYIND CLINA CICINA CICINA

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		$\overline{}$	1	Τ-					т-	т	T	Т	Τ-	1	Т	_		_	_	Т	Γ-	Т	П	Г	т-	т	_	_	_		
Single Exon Probes Expressed in Fetal Liver	Top Hit Descriptor	601895183F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4124541 5'	Homo sapiens mRNA for KIAA 1276 protein, partial cds	Homo sapiens mRNA for KIAA1276 protein, partial cds	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA	Homo sapiens amykoid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA	Homo sapiens amyoid beta (A4) precursor protein (protease nexin-II. Alzheimer disease) (APP), mRNA	Homo sapiens amykid beta (A4) precursor protein (protease nextn-ll, Alzheimer disease) (APP), mRNA	ww83e05.x1 Scares_thymus_NHFTh Homo sapiens cDNA clone IMAGE:2538160 3'	Homo septens mRNA for KIAA1101 protein, complete cds	Homo sapiens 2,4-dienoy/ CoA reductase 1, milochandrial (DECR1), mRNA	Homo sapiens CGI-60 protein (LOC51626), mRNA	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22; segment 1/3	Homo saplens breast cancer 1, early onset (BRCA1), transcript variant BRCA1-exon4, mRNA	Homo sapiens cAMP responsive element binding protein 1 (CREB1) mRNA	Homo sapiens KIAA0005 gene product (KIAA0005), mRNA	Homo sapiens KIAA0005 gene product (KIAA0005), mRNA	Homo sapiens chromosome 21 segment HS21C047	Homo sapiens dynactin 1 (DCTN1) gene, exons 27 and 28	Homo sapiens dynactin 1 (DCTN1) gene, exons 27 and 28	Human von Willebrand factor gene, exon 20	Homo sapiens diaphanous (Drosophila, homolog) 1 (DIAPH1), mRNA	Homo sapiens elastin (supravalvular aortic stenosis, Williams-Beuren syndrome) (ELN), mRNA	Homo sapiens culin 1 (CUL1), mRNA	Human mRNA for kidney epidermal growth factor (EGF) precursor	H.sapiens DNA for Cone cGMP-PDE gene	H.sapiens DNA for Cone cGMP-PDE gene	Homo sapiens hu-GlcAT-P mRNA for glucuronyltransferase, complete cds	Homo sapiens hu-GicAT-P mRNA for glucuronyltransferase, complete cds	Homo sapiens meningioma expressed antigen 6 (colled-coll proline-rich) (MGEA6), mRNA	RC3-CT0254-280999-011-b05 CT0254 Homo sapiens cDNA
Exon Probes	Top Hit Database Source	EST_HUMAN	TN	TN	TN	IN	TN	TN	EST_HUMAN	Z	IN	IN	NT	NT	TN	NT	NT	NT	NT	LN	LN	TN	LN	IN	τN	LN	NT	LN	NT	Ņ	EST HUMAN
eigilic	Top Hit Acession No.	2.0E-77 BF310349.1	1.0E-77 AB033102.1	1.0E-77 AB033102.1	4502168 NT	4502166 NT	4502166 NT	4502166 NT	1.0E-77 AW058119.1	1.0E-77 AB029024.1	4503300 NT	7706299 NT	1.0E-77 AJ229041.1	6552322 NT	4758053 NT	7661849 NT	7661849 NT	1.0E-77 AL163247.2	1.0E-77 AF086944.1	1.0E-77 AF086944.1	1.0E-77 M25844.1	4885182 NT	5881412 NT	11420159 NT	X04571.1	X94354.1	X94354.1	1.0E-77 AB028396.1	E-77 AB029396.1	11433426 NT	9.0E-78 AW 753302.1
	Most Similar (Top) Hit BLAST E Value	2.0E-77	1.0E-77	1.0E-77	1.0E-77	1.0E-77	1.0E-77	1.0E-77	1.0E-77	1.0E-77	1.0E-77	1.0E-77	1.0E-77	1.0E-77	1.0E-77	1.0E-77	1.0E-77	1.0E-77	1.0E-77	1.0E-77	1.0E-77	1.0E-77	1.0E-77	1.0E-77	1.0E-77 X04571.1	1.0E-77 X94354.1	1.0E-77 X94354.1	1.0E-77	1.0E-77	1.0E-77	9.0E-78
	Expression Signal	0.55	1.39	1.39	2.09	2.09	2.96	2.96	1.41	0.99	2.82	3.95	20.39	3.41	0.59	1.05	1.05	4.13	1.46	1.48	1.4	1.45	15.68	0.92	0.78	1.31	1.31	1.01	1.01	2.92	2.4
	ORF SEQ ID NO:	35378	25187	25188	25437	25438	26041	26042	27104	27625		29472			29627	30211	30212		31449	31450	31577	31972	32270	33060	33141			35909	35910	36496	35948
	Exon SEQ ID NO:	22403	12726	12726	12950	12950	15428	15428	14547	15053	15696	17031	17205	17336	17180	17792	17792	17946	18702	18702	18808	19173	19454	20173	20248	21708	21706	22910	22910	23471	22938
	Probe SEQ ID NO:	9066	47	47	294	294	806	806	1963	2488	3081	4445	4622	4755	2098	5228	5228	5387	9809	9809	6198	6575	7114	7661	7740	9189	9189	10416	10416	10956	10444

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Probe SEQ ID NO:	SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
6574	19172	31970	4.74		8.0E-78 AW947061.1	EST_HUMAN	RC2-ET0023-080500-012-e05 ET0023 Homo sapiens cDNA
6574			47.4		AW947061.1	EST_HUMAN	RC2-ET0023-080500-012-605 ET0023 Homo sapiens cDNA
88	12765		1.48	8.0E-78	6.0E-78 AU118789.1	EST_HUMAN	AU118789 HEMBA1 Homo sapiens cDNA clone HEMBA1004354 5'
8					6.0E-78 AU118789.1	EST_HUMAN	AU118789 HEMBA1 Homo sapiens cONA clone HEMBA1004354 5'
3356	l				6.0E-78 BF344101.1	EST_HUMAN	602016926F1 NCI_CGAP_Bm64 Homo sapiens cDNA clone IMAGE:4152511 5'
6877	19273		2.29		11432710 NT	TN	Homo sapiens GDNF family receptor alpha 1 (GFRA1), mRNA
234	12894	25377			11422486 NT	Į,	Homo sapiens hypothetical protein FLJ11316 (FLJ11316), mRNA
							ba54h03.y3 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2900405 5' similar to WP:Y48B6A,6
2597	_1				5.0E-78 AW673424.1	EST HUMAN	OE22121
3432					M55586.1	NT	Human collagenase type IV (CLG4) gene, exon 6
5607					AF0385	NT	Homo sapiens Best's macular dystrophy related protein mRNA, partial cds
5764			24.58		11416585 NT	NT	Homo sapiens transforming growth factor, beta-induced, 68kD (TGFBI), mRNA
7208	19739	32593	2.2		5.0E-78 AW953120.1	EST_HUMAN	EST365190 MAGE resequences, MAGB Homo sapiens cDNA
9012					U60889.1	IN	Human Iysosomal alpha-mannosidase (manB) gene, exon 7
9013					5.0E-78 BE960836.1	EST_HUMAN	601648061F1 NIH_MGC_62 Homo saplens cDNA clone IMAGE:3931887 5
1178		28288		ĺ	4.0E-78 AL043314.2	EST_HUMAN	DKFZp434N0323_r1 434 (synonym: https://domo.sapiens.cDNA.clone.DKFZp434N0323 5
1565	14157	L			4.0E-78 AL355841.1	NT	Novel human gene mapping to chomosome 22
2357	14928				4.0E-78 AF107405.1	NT	Homo sapiens pre-mRNA splicing factor (SFRS3) mRNA, complete cds
4414	16989		1.23	4.0E-78	7656876 NT	Z	Homo sapiens syncytin (LOC30816), mRNA
4887	17462		16'1	4.0E-78	4505806 NT	NT	Homo saplens phosphatidylinositol 4-kinase, catalytic, alpha polypeptide (PIK4CA) mRNA
4887	17462	29916		4.0E-78		N	Homo sapiens phosphatidylinositol 4-kinase, catalytic, alpha polypeptide (PIK4CA) mRNA
5941	18561	31290	26.0	4.0E-78	11420732 NT	NT	Homo sapiens SFRS protein kinase 2 (SRPK2), mRNA
7502			77.0		4506736 NT	M	Homo sapiens ribosomal protein S6 kinase, 70kD, polypeptide 1 (RPS6KB1) mRNA
8787			1.51		4.0E-78 AF012872.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (pi4K230) mRNA, complete cds
8787	21328	34251	1.51		4.0E-78 AF012872.1	NT	Homo sapiens phosphatidylinosital 4-kinase 230 (pi4K230) mRNA, complete cds
0000	21890	34837	190	A OF. 7B	11417251 NT	ţ	Homo saniens X-rav ranair complementing dyfective repair in Chinese hamster cells 4 (XRCC4) mRNA
10341	\perp					Z	Homo sapiens hypothetical C2H2 zinc finger protein FLJ22504 (FLJ22504), mRNA
10341	L				11560151 NT	Į.	Homo sapiens hypothetical C2H2 zinc finger protein FLJ22504 (FLJ22504), mRNA
10841	I _		1.67	4.0E-78	11426610 NT	۲	Homo sapiens regulatory factor X-associated ankyrin-containing protein (RFXANK), mRNA
11297				4.0	-78 AF169148.1	Į.	Homo sapiens s-CaBP1 (CABP1) mRNA, complete cds
11432	23882				4.0E-78 X05844.1	NT	Human transforming growth factor-beta precursor gene exons 4-5 (and joined mature peptide)
12337			4.58		4.0E-78 AB011399.1	NT	Homo sapiens gene for AF-8, complete cds
172		25318			3.0E-78 AF095901.1	NT	Homo saplens eRF1 gene, complete cds

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Γ						П										T	\neg							П	П		Γ	Г	П	П		П	٦
	Top Hit Descriptor	Homo sapiens eRF1 gene, complete cds	AU140604 PLACE3 Homo sapiens cDNA clone PLACE3000373 5'	Homo sapiens synaptojanin 1 (SYNJ1), mRNA	CM0-HT0180-041099-085-c07 HT0180 Homo sapiens cDNA	QV0-HT0367-150200-114-g09 HT0367 Homo sapiens cDNA	Homo sapiens type IV collagen alpha 5 chain (COL4A5) gene, exon 20	EST182583 Jurkat T-cells VI Homo sapiens cDNA 5' end	UI-HF-BK0-saj-g-10-0-UI.r1 NIH_MGC_36 Hamo sapiens cDNA clone IMAGE:3054139 5'	UI-HF-BK0-saj-g-10-0-UI.r1 NIH_MGC_36 Homo sapiens cDNA clone IMAGE:3054139 5'	602186529F1 NIH_MGC_49 Hamo sapiens cDNA clone IMAGE:4288599 5	AV714177 DCB Homo sapiens cDNA clone DCBAW F09 5'	Pt2.1_16_B07.r tumor2 Homo saplens cDNA 3'	Pt2.1_16_B07.r tumor2 Homo sapiens cDNA 3'	qi50h05.x1 NCI_CGAP_Brn25 Hamo sapiens cDNA clone IMAGE:1859961 3' similar to WP:Re0.1	CE06325 PROTEIN KINASE;	za48f12.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:295823 3'	Homo sapiens GAP-like protein (LOC51306), mRNA	AV648699 GLC Homo sapiens cDNA clone GLCBMC013'	Human serine/threcnine kinase MNB (mnb) mRNA, complete cds	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA	Homo sapiens similar to lymphocyte activation-essociated protein (H. sapiens) (LOC63140), mRNA	Homo sapiens peptide YY (PYY), mRNA	RC2-BN0074-090300-014-c12 BN0074 Hamo sapiens cDNA	Homo sapiens mRNA for activator of S phase Kinase, complete cds	Homo sapiens ubjautitin-conjugating enzyme E2E 3 (homologous to yeast UBC4/5) (UBE2E3) mRNA	Homo sapiens hypothetical protein FLJ11294 (FLJ11294), mRNA	Homo sapiens hypothetical protein FLJ20345 (FLJ20345), mRNA	Homo sapiens cAMP response element-binding protein CRE-BPa (H_CS165L15.1), mRNA	Homo sapiens cAMP response element-binding protein CRE-BPa (H_GS165L15.1), mRNA	Human T-cell mRNA for glycyl tRNA synthetase, complete cds	Homo sapiens threony-tRNA synthetase (TARS), mRNA	Homo sapiens threonyl-tRNA synthetase (TARS), mRNA
	Top Hit Database Source	TN	EST_HUMAN	TN	EST_HUMAN	EST_HUMAN	NT	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN		EST_HUMAN	EST_HUMAN	NT	EST_HUMAN	FZ	NT	Ä	ΙN	EST_HUMAN	۲N	_ 5	LN L	L	L	L	LΝ	LN	N-
	Top Hit Acession No.		3.0E-78 AU140604.1	4507334 NT			2.0E-78 U04489.1			Г								11417304 NT	1.0E-78 AV648699.1		11430460 NT	11435903 NT	11525891 NT		E-79 AB028070.1	5454145 NT	11430822 NT	11424427 NT	11421735 NT	11421735 NT	JE-79 D30858.1	11417260 NT	11417260 NT
	Most Similar (Top) Hit BLAST E Value	3.0E-78	3.0E-78 A	3.0E-78	3.0E-78	3.0E-78	2.0E-78 U	2.0E-78	2.0E-78	2.0E-78 A	2.0E-78	2.0E-78	2.0E-78	2.0E-78 AI557509.1		2.0E-78 AI197837.1	2.0E-78 N66951.1	1.0E-78	1.0E-78	1.0E-78	1.0E-78	1.0E-78	9.0E-79	9.0E-79	9.0E-79 /	9.7.40	9.0E-79	9.0E-79	9.0E-79	9.0E-79	9.0E-79	9.0E-79	9.0E-79
	Expression Signal	2.42	1.15	0.78	5.78	5.65	2.54	1.8	1.38	1.38	3.47	1.73	1.8	1.8		3.39			1.91		2.17	1.41	4.05	3.34		2.48	1.43	0.98	0.89		0.72		
	ORF SEQ ID NO:	25319		28947		36400			32870			33432		33849		,			30478	L	31037	31014				71864		L	32968	L	L		33749
	Exon SEQ ID NO:	12835	16427	16486	22681	1	1	ı	ı	20008	20223	20526	50929	50929	ı	23474	L	L	18055				17386		1	10083	L.	1	ŀ	1	1	L	20828
	Probe SEQ ID NO:	172	3827	4180	10186	10860	3155	4086	7483	7483	7714	7987	8389	8389		10959	11003	5508	7035	8100	11832	11928	4808	4988	5624	6487	6731	7388	7575	7575	7612	8287	8287

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Top Hit Acession Database No. Source		1.1 NT	EST_HUMAN	3.1 EST_HUMAN	4757841 NT Homo sapiens BCL2-ilke 2 (BCL2L2) mRNA	234 NT	4885234 NT Homo sapiens Gardner-Rasheed feline sarcoma viral (~fgr) oncogene homolog (FGR) mRNA	3747.1 [EST_HUMAN [b118h07.x1 NC]_CGAP_Pr28 Homo sapiens cDNA clone IMAGE:2118685 3'	7657024 NT Homo sapiens Dickkopf gene 4 (DKK-4), mRNA	7657024 NT Homo sapiens Dicktopf gene 4 (DKK-4), mRNA	255 NT	4585863 NT Homo sapiens phosphodiesterase 6A, cGMP-specific, rod, alpha (PDE6A), mRNA	4585863 NT Homo sapiens phosphodiesterase 6A, cGMP-specific, rod, alpha (PDE6A), mRNA	14138.1 NT Homo sapiens hepatocellular carcinome-associated antigen 88 (HCA88) mRNA, complete cds	23154.1 INT Homo sapiens mRNA for KIAA0937 protein, partial cds	70492.1 NT Homo sepiens chloride channel CLC4 (CIC4) mRNA, complete cds	1408.1 NT Homo sapiens mRNA for Fas-associated factor, FAF1 (Faf1 gene)	LΝ	EST182926 Jurkat T-cells VI Homo sapiens cDNA 5' end similar to cimilar to C. elegans hypothetical protein. IEST HUMAN cosmid B0303.15	11769 NT	20837.1 NT Homo sapiens mRNA for KIAA0830 protein, partial cds	33613.1 NT Homo sapiens membrane-associated calcium-independent phospholipase A2 gamma mRNA, complete cds	7382479]NT Homo sapiens Rho GTPase activating protein 6 (ARHGAP6), transcript varient 4, mRNA		4506442]NT Homo saplens retinoblastoma-like 1 (p107) (RBL1) mRNA.	11427428 NT Home sapiens hypothetical protein FLJ11006 (FLJ11006), mRNA	8923248 NT Homo sapiens hypothetical protein FLJ20275 (FLJ20275), mRNA	8923248 NT Homo sapiens hypothetical protein FLJ20275 (FLJ20275), mRNA		1432184 NT	Z	369.1 INT H4(D10S170)=putative cytoskeletal protein (human, thyroid, mRNA, 3011 nt)
Top Hit Aces	E-79 AF 249273.1	E-79 AF249273.1	2.0E-79 H63129.1	E-79 BE379926.1	475	2.0E-79 4885	488	41523747.1	765	765	786	458	458	AF244138.1	AB023154.1	AF170492.1	AJ271408.1	AL 163206.2	E-79 AA312223.1	1118	E-79 AB020637.1	E-79 AF263613.1	738	738	450	1142	892	892		E-79 1143	2/2009.1	E-79 S72869.1
Most Similar (Top) Hit BLAST E Value	3.0E-79	3.0E-79	2.0E-79	2.0E-79	2.0E-79	2.0E-79	2.0E-79	2.0E-79	2.0E-79	2.0E-79	2.0E-79	2.0E-79	2.0E-79	2.0E-79	2.0E-79	2.0E-79	2.0E-79	2.0E-79	2.0E-79	2.0E-79	2.0E-79	2.0E-79	2.0E-79	2.0E-79	2.0E-79	2.0E-79	2.0E-79	2.0E-79		2.0E-79	2.0E-/8	2.0E-79
Expression Signal	1.97	1.97	1.05	1.38	0.94	0.91	0.91	1.06	1.21	1.21	1.01	10.76	10.78	2.42	66.0	99.0	1.24	0.62	1.16	6.0	1.1	0.96	1.76	1.76	1.22	2.52	0.55	0.55		6.9	\$.	1.94
ORF SEQ ID NO:	36280	36281		25767	26090	26145	26146		26958	26959	27060	27341	27342	27498	27863	29054	29284	29828		31248	31773	30482	32605	32606	33492	33912	34163	34164		34391	20460	35489
Exon SEQ ID NO:	1	23265			13574	13630	13630	13678	14413	14413	14503	14769					16833		18475	18523	18993	18060	19750	19750	20586	20994	21240	21240	[ı	88477	
Probe SEQ ID NO:	10740	10740	309	662	963	1020	1020	1073	1824	1824	1918	2193	2183	2352	2741	3985	4245	4800	5851	5901	6390	7040	7219	7219	8044	8454	8701	8701		8834	10004	10004

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Top Hit Descriptor	Homo sapiens dystrophin (DMD) mRNA, complete cds	Homo sapiens G protein-coupled receptor 51 (GPR51), mRNA	Homo sapiens G protein-coupled receptor 51 (GPR51), mRNA	Homo sapiens chromosome 21 segment HS21C101	Homo sapiens HSPC146 mRNA, complete cds	Human cone photoreceptor cGMP-phosphodiesterase alpha'subunit gene, exon 21	Homo sapiens brefeldin A-inhibited guanine nucleotide-exchange protein 1 (BIG1), mRNA	Homo saplens Cyt19 mRNA, complete cds	Homo sapiens N-acety/glucosamine-phosphate mutase mRNA, complete cds	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1)	Home contain CCT agas for construction withdrawforms over 4.3.3.4 E	ionio sapiens CS i gene io cerebioside sullotansierase, exon 1, 2, 3, 4, 5	Homo sapiens mRNA for sodium-glucose cotransporter (SGLT2 gene)	Homo sapiens proteasome (prosome, macropain) 26S subunit, non-ATPase, 3 (PSMD3) mRNA	Homo saplens serine threonine protein Kinase (MNBH) mRNA, complete cds	Homo sapiens serine-threonine protein kinase (MNBH) mRNA, complete cds	H. saplens ncx1 gene (exon 12)	Homo sapiens chromosome 21 segment HS21C083	Human I(3)mbt protein homolog mRNA, complete cds	Homo sapiens mRNA for KIAA1434 protein, partial cds	Homo sapiens H3 histone family, member J (H3FJ) mRNA	Homo sapiens HMT-1 mRNA for beta-1,4 mannosytransferase, complete cds	Homo sapiens HMT-1 mRNA for beta-1,4 mannosytransferase, complete cds	Hamo sapiens chramosame 21 segment HS21C068	Mus musculus keratin complex 2, gene 6g (Krt2-6g), mRNA	HSPD13155 HM3 Homo sapiens cDNA clone s4000045F03	Homo sapiens chromosome 21 segment HS21C010	QV4-BN0283-040600-241-g10 BN0283 Homo sapiens cDNA	oc23e12.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:1567054 3' similar to	TR:035780 035790 PIG-L. ;	yg65a08.r1 Soares Infant brain 1NIB Homo sapiens cDNA clone IMAGE:38060 5'	RET487 subtracted retina cDNA library Homo saplens cDNA clone RET487	DKFZp434D1323_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434D1323 5'	wn49c10.x1 NCI_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2448788 3'
 Top Hit Database Source	IN			Į.		±N		1 LN	±N TN	<u> </u>						INT						1 LN	1 LN	INT IN		EST_HUMAN	_	EST_HUMAN C				П	П	EST_HUMAN N
Top Hit Acession No.	0E-80 M18533.1	11526464 NT	11526484 NT	E-80 AL 163301.2	JE-80 AF181495.1	DE-80 U20211.1	11427366 NT	DE-80 AF226730.1	DE-80 AF102265.1	00 00 00 00 00 00 00 00 00 00 00 00 00				4506228 NT							5.0E-80 4504292 NT				9910293 NT		0E-80 AL163210.2	DE-80 BE817465.1					2.0E-80 AL043116.2	
Most Similar (Top) Hit BLAST E Value	6.0E-80 A	6.0E-80	6.0E-80	6.0E-80	6.0E-80 A	8.0E-80	6.0E-80	6.0E-80	6.0E-80		0.0E-00	0.0E-80	6.0E-80	5.0E-80	5.0E-80	5.0E-80	5.0E-80 >	5.0E-80	5.0E-80	5.0E-80	5.0E-80	5.0E-80	5.0E-80	5.0E-80	5.0E-80	4.0E-80 F	3.0E-80	3.0E-80 E		3.0E-80 /	2.0E-80 F	2.0E-80/	2.0E-80/	2.0E-80/
Expression Signal	0.84	2.43	2.43	1.6	0.88	1.49	2.68	22.81	1.93	18.4	5 2	LO.C	1.95	2.83	1.9	1.9	1.18	2.88	1.08	2.56	2.67	0.93	0.93	1.29	1.04	15.52	11.18	6.93		2.04	6.34	1.4	5.6	0.71
ORF SEQ ID NO:	31850	34217	34218			35258	95898				1			25716		52888						29160												
Exon SEQ ID NO:	19065	21297	21297		21807		23341	23613	24036	90070											15372	16706	16706					17608	l		i		! !	18996
Probe SEQ ID NO:	6464	8758	8728	8949	9281	9775	10820	11103	11593	41847	12040	8107	12543	614	888	868	1231	1503	2399	2474	2820	4112	4112	5089	8298	9182	233	5034		5986	1833	1900	2100	යෙන

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
6393	18996	31776	0.71	2.0E-80		EST_HUMAN	wn49c10.x1 NCI_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2448786 3'
6897		32469	1.08	2.0E-80	2.0E-80 AA582952.1	EST_HUMAN	nn80d01.s1 NCI_CGAP_Cc9 Homo saptens cDNA clone IMAGE:1090177.3
6993		32312		2.0E-80	11421930 NT	TN	Homo sapiens Golgi transport complex protein (90 kDa) (GTC90), mRNA
7.20A				2.0E-80	80 175215.1	EST HUMAN	yc86712.r1 Soares infant brain 1NIB Homo saplens cDNA clone IMAGE:22851 5' similar to SP:K1CR_XENLA P08802 KERATIN, TYPE I CYTOSKELETAL ENDO B;
9806			1.25	2.0E-80	0.1	П	EST376343 MAGE resequences, MAGH Homo sapiens cDNA
9883	1	L	1.13			IN	Homo sapiens GGT gene, exon 6
10748			7.28	2.0E-		EST_HUMAN	zt70f12.r1 Soares_(estis_NHT Homo sapiens cDNA clone IMAGE:727727 5' similar to 1R:G191315 G191315 ANDROGEN-DEPENDENT EXPRESSED PROTEIN :
362			1.44	1.0E-80	-80 AL 163303.2	NT	Homo sapiens chromosome 21 segment HS21C103
832	L	25956	1.39	1.0E		TN	Homo saplens chromosome 21 unknown mRNA
				,		NAME OF THE POPULATION OF THE	nn01ft]2.x5 NCI_CGAP_Co9 Homo saplens cDNA clone IMAGE:1076495 3' sImilar to contains OFR.t1 OFR properties demost:
1997	14579		3.73	1.0E	40 A1/32656.1	EST HOMAIN	repouve denical.
4945	17520	29962	0.71	9	-80 N99520.1	EST_HUMAN	28/39g07. It socres retailiver spreen Tinnes rapies con viving invocations (1) suring to common. Alu repetitive element;
5530	L		6.77	1.0E-90	-80 BE386615.1	EST_HUMAN	601274305F1 NIH_MGC_20 Homo saplens cDNA clone IMAGE:3615433 5
6128	18741	31494	6.5	1.0E	-80 L10347.1	NT	Human pro-alphat type II collagen (COL2A1) gene exons 1-54, complete cds
7699		32028	1.57	1.0E-80	5174540 NT	L	Homo sapiens malate dehydrogenase 2, NAD (mitochondrial) (MDH2), nuclear gene encoding mitochondrial protein, mRNA
7258				1.06	AJ22417	LN	Homo saplens mRNA for lipophilin B
7574		L		1 06		EST_HUMAN	wq25c05.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2472296 3'
7574	L			1.0E	-80 AI948731.1	EST_HUMAN	wq25c05.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2472296 3'
8173			1.25	1.0E-80	11421211 NT	L	Homo sepiens protein tyrosine phosphatase, receptor type, A (PTPRA), mRNA
8634	21173	34091	96'0	1.0E-80	11421211 NT	LN L	Homo sapiens protein tyrosine phosphatase, receptor type, A (P I PRA), mRNA
8634	21173	34092	96.0	1.0E-80	11421211	N	Homo sepiens protein tyrosine phosphatase, receptor type, A (P I PRA), mRNA
8026	21726	34668	1.79			Z	Homo saplens probable mannose binding C-type lectin DC-SIGNK mKNA, complete cas
9209	ı			1.0E	-80 AF 245 219.1	N	Homo sapiens probable mannose binding C-type fectin DC-SIGNK mKNA, complete cas
10323	L				1.0E-80 D63479.2	NT	Homo sapiens mRNA for KIAA0145 protein, partial cds
10531	L	36080	2.64			Z	Homo sapiens similar to rat myomegalin (LOC84182), mRNA
10531	L	36081				Ę	Homo sapiens similar to rat myomegalin (LOC64182), mKNA
12091	24359	30967	2.04		11417901 NT	Z	
10564		36113			8.0E-81 AI251752.1	EST_HUMAN	qh90g05x1 Soares_NPL_I_GBC_S1 Homo sapiens GUNA cione imAGE. 1004290 3
10564	23100				8.0E-81 AI251752.1	EST_HUMAN	GH90g05.X1 Soares_NFL GBC_S1 Homo sapiens CDNA Crate IMAGE. I contact of
11033		36582	6.13		8.0E-81 BE394525.1	EST HUMAN	801310331FT NIM_MGC_44 Hamo sapiens conn ciare innace. 3002010 3

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	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Vatue	Top Hit	Top Hit Database Source	Top Hit Descriptor
11708	24961	30634	11.8	4.0	11417862 NT	M	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
11708	24961	30835	11.8		11417862 NT	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12277		30938			11417871 NT	NT	Homo sapiens beta-ureidopropionasa (LOC51733), mRNA
12277	24481		2.13	4.(11417871 NT	N _T	Homo saplens beta-uredopropionase (LOC51733), mRNA
12430				4.0E-81	11417974 NT	N	Homo sapiens transcobalamin II; macrocytic anemia (TCN2), mRNA
1310			3		E-81 Y18000.1	NT	Homo sapiens NF2 gene
1310	13904		9.81	3.0	3.0E-81 Y18000.1	ΙN	Homo sapiens NF2 gene
2409				3.0	E-81 AF077188.1	NT	Homo sapiens cullin 4A (CUL4A) mRNA, complete cds
3020	15636	28112	5.8	3.0E-81	4506280 NT	IN	Homo sapiens pleiotrophin (heparin binding growth factor 8, neurite growth-promoting factor 1) (PTN) mRNA
3020	15636	28113	5.8	L.	4508280 NT	Ę	Homo sapiens pleiotrophin (heparin binding growth factor 8, neurite growth-promoting factor 1) (PTN) mRNA
5143	17714		2	L	3.0E-81 AL183283.2	N	Homo sapiens chromosome 21 segment HS21C083
2859	15478	27953		2.0E-81	BE784636.1	EST_HUMAN	601474072F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3877121 5'
2859	15478	27954		2.0E-81	2.0E-81 BE784636.1	EST_HUMAN	801474072F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3877121 5
3841			0.75		AW611542.1	EST_HUMAN	hg85c01.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2952384 3
12591	18440				E-81 AW611542.1	EST_HUMAN	hg85c01.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2952384 3'
1488	14060	26595		1.0E-81	E-81 W 26539.1	EST_HUMAN	33f3 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA
4613				1.0E-81	1.0E-81 AA040370.1	EST_HUMAN	zk45h09.r1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:485625 6' similar to PIR:S52437 S52437 CDP-diacylglycerol synthase - fruit fly ;
4750	17331	29774	8.65	1.05-81	E-81 BE047996.1	EST_HUMAN	tz45c04.y1 NCI_CGAP_Brn52 Homo saplens cDNA clone IMAGE:2291526 5'.
6048		20008	1.14	1.0E-81	E-81 AW 182429.1	EST_HUMAN	xy42a03.x1 Soares_NFL_T_GBC_S1 Homo saplens cDNA clone IMAGE:2659852 3'
5448	18017			1.0	E-81 U87928.1	NŢ	Human aconitate hydratase (ACO2) gene, exon 3
5558			3.58	1.0		NT	Homo sapiens polymerase (DNA directed), gamma (POLG), mRNA
5558	18188	30604		1.0E-81	11432966 NT	Ę	Homo sapiens polymerase (DNA directed), gamma (POLG), mRNA
5693	18319	30818		0.1	E-81 AA255589.1	EST HUMAN	zr85d08.r1 Soares_NhHMPu_S1 Homo sapiens cDNA clone IMAGE:682475 5' similar to SW:PRI2_HUMAN] P49643 DNA PRIMASE 58 KD SUBUNIT ;
5835			3.92	5	U52351.1	N.	Homo sapiens arm-repeat protein NPRAP/neurojungin (CTNND2) mRNA, partial cds
5835				1.0	E-81 U52351.1	NT	Homo sapiens arm-repeat protein NPRAP/neurojungin (CTNND2) mRNA, partial cds
6295	18903	31674		1.0	E-81 BF674641.1	EST_HUMAN	602137864F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4274535 5
4000	90,00	00000		10.4	1 05 84 6 1133380 1	<u> </u>	Homo saplens caveolin-1/-2 locus, Contig1, D7S522, genes CAV2 (exons 1, 2a, and 2b), CAV1 (exons 1 and
77.48	1	1			11432986INT		Homo sepiens polymerase (DNA directed), gamma (POLG), mRNA
77.82	20270	33169	0.70		A.12504	J-Z	Homo sablens GLI3 perpetu
75,	1	١			W600700.1		

Page 376 of 526 Table 4 Single Exon Probes Expressed in Fetal Liver

		Т	_	т		$\overline{}$	$\overline{}$	T	T	$\overline{}$	┰	_	┰	_	1	_	$\overline{}$	_	Т	$\overline{}$	1	_	т-	$\overline{}$	_	$\overline{}$	_	_	_		_
Single Exoli Plobes Explessed in Fetal Liver	Top Hit Descriptor	601645051F1 NIH MGC 56 Hamo sapiens cDNA clone IMAGE:3930228 5	601645051F1 NIH MGC 56 Homo sapiens cDNA clone IMAGE 3930228 5'	601343180F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3685483 5'	ec14d08.s1 Stratagene HeLa cell s3 937216 Homo sapiens cDNA clone IMAGE:856427 3' similar to SW:YB36_YEAST P38126 HYPOTHETICAL 60.5 KD PROTEIN IN RPS101-RPS13 INTERGENIC REGION:	601577339F1 NIH MGC 9 Home seniens cDNA clone IMAGE 3838280 5	601577339F1 NIH MGC 9 Homo sapiens cDNA clone IMAGE 3838280 5	CM3-NN0059-140400-147-a12 NN0059 Homo sapiens cDNA	MRo-CT0008-250599-019 CT0006 Homo sapiens cDNA	MR0-CT0006-250599-019 CT0006 Homo saplens cDNA	RC3-UM0046-290200-011-806 UM0046 Homo sepiens cDNA	RC3-UM0048-280200-011-a06 UM0046 Homo sapiens cDNA	EST372729 MAGE resequences, MAGF Homo sapiens cDNA	601867714F1 NIH MGC 17 Homo sapiens cDNA clone IMAGE:4110459 5'	Homo sapiens phorbolin (similar to apolipoprotein B mRNA editing protein) (DJ742C19.2) mRNA	Homo sapiens HSPC288 mRNA, partial cds	Homo saplens HSPC288 mRNA, partial cds	Human CRFB4 gene, partial cds	Human CRFB4 gene, partial cds	Human CRFB4 gene, partial cds	Homo sapiens mRNA for KIAA1327 protein, partial cds	Homo sapiens glutathione peroxidase 5 (epididymal androgen-related protein) (GPX5), transcript variant 2, mRNA	Homo sapiens hypothetical protein FLJ20461 (FLJ20461), mRNA	801458531F1 NIH MGC 66 Homo saplens cDNA clone IMAGE:3862086 5	AU144050 HEMBA1 Homo sapiens cDNA clone HEMBA10007523'	nf69e11.s1 NCI_CGAP_Co3 Homo sapiens cDNA clone IMAGE:925196 3	Homo sapiens alphe-tubulin isoform 1 mRNA, complete cds	QV2-HT0540-120900-362-f08 HT0540 Homo saplens cDNA	QV2-HT0540-120900-362-f08 HT0540 Homo sapiens cDNA	wp75e08.x1 NCI_CGAP_Brn25 Homo sapiens cDNA done INAGE.2467624 3' similar to TR:075276 075276 PKD1;	Homo sapiens presenilin-1 gene, exons 1 and 2
EXOLI LIODE	Top Hit Detebase Source	EST HUMAN	EST HUMAN	EST_HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST_HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST_HUMAN	EST HUMAN	FZ	N.	ŁZ	Į.	N	F	FZ	ħ	N	EST HUMAN	EST_HUMAN	EST HUMAN	N	EST HUMAN	EST_HUMAN	EST_HUMAN	Z
alfille	Top Hit Acession No	.0E-81 BE958278.1	.0E-81 BE958278.1	.0E-81 BE564367.1	.0E-81 AA630784.1	.0E-81 BE744545.1	.0E-81 BE744545.1	.0E-81 AW897550.1	.0E-81 AW844986.1	.0E-81 AW844986.1		.0E-81 AW 798167.1	.0E-81 AW960658.1	.0E-81 BF204253.1	11418138 NT		8.0E-82 AF161406.1					6715601 NT	8923432 NT	.0E-82 BF035327.1					.0E-82 BF351691.1		4.0E-82 AF029701.2
	Most Similar (Top) Hit BLAST E Value	1.0E-81	1.0E-81	1.0E-81	1.0E-81	1.0E-81	1.0E-81	1.0E-81	1.0E-81	1.0E-81	1.0E-81	1.0E-81	1.0E-81	1.0E-81	1.0E-81	8.0E-82	8.0E-82	8.0E-82	8.0E-82 U08988.1	8.0E-82 U08988.1	8.0E-82	8.0E-82	8.0E-82	7.0E-82	7.0E-82	7.0E-82	4.0E-82	4.0E-82	4.0E-82	4.0E-82	4.0E-82
	Expression Signal	13.75	13.75	4.13	1.16	2.64	2.64	1.47	2.02	2.02	1.57	1.57	2.07	2.34	3.39	13.13	6.9	1.89	2.2	1.5	1.12	1.42	0.77	1.45	1.21	1.37	20.15	0.83	0.83	5.53	5.98
	ORF SEQ ID NO:	35163	35164	35353	35500	L	35503	35892	36508								25149	25427	25971	26051	26665	26826			27916				30813	37080	
	Exon SEQ ID NO:	22190		22376	22509		22511	22896	23482	23482	23486				24258	12693	12693	12941	13463	13533	14129	14290	16914	14091		24555	14303	18314	18314	24010	24415
	Probe SEQ ID NO:	9691	969-1	9879	10014	1001	10016	10402	10967	10967	10971	10971	11152	11398	11920	14	111	285	847	920	1537	1697	4328	1499	2794	12395	1710	5688	2688	11563	12179

Page 377 of 526 Table 4 Single Exon Probes Expressed in Fetal Liver

Single Exoll Flores Explessed II Fetal Livel	Top Hit Descriptor	Homo sapiens amyold bets (A4) precursor protein (protease nexin-li. Alzheimer disease) (APP), mRNA	RC2-BN0120-010400-013-f02 BN0120 Hamo sapiens cDNA	Homo sapiens transforming growth factor beta-activated kinase-binding protein 1 (TAB1), mRNA	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-1). Alzheimer disease) (APP), mRNA	ai23e05.s1 Scares_testis_NHT Homo sapiens cDNA clone 1343648 3'	RC6-PT0001-190100-021-B02 PT0001 Homo sapiens cDNA	Homo sapiens chromosome 21 segment HS21C085	RC1-BN0005-260700-018-g04 BN0005 Homo saplens cDNA	Homo sapiens adenylate cyclase activating polypeptide 1 (plituitary) receptor type I (ADCYAP1R1) mRNA	Homo sapiens neurotrophic tyrosine kinase, receptor, type 2 (NTRK2) mRNA	zn93b04.r1 Stratagene lung carcinoma 937218 Homo sapiens cDNA clone IMAGE:5657115' similer to SW:PAGT_BOVIN Q07637 POLYPEPTIDE N-ACETYLGALACTOSAMINYLTRANSFERASE;	Homo saplens ankyrin-like with transmembrane domains 1 (ANKTM1) mRNA	Homo sapiens contactin 6 (CNTN6), mRNA	Homo sapiens contactin 6 (CNTN6), mRNA	Homo sapiens mRNA for KIAA1077 protein, partial cds	Homo sapiens mRNA for KIAA1077 protein, partial cds	Homo sapiens mRNA for KIAA0999 protein, partial cds	Homo sapiens mRNA for KIAA0999 protein, partial cds	DKFZp434M117_r1 434 (symonym; hles3) Homo sapiens cDNA clone DKFZp434M117 5	H. sapiens plasminogen-apolipoprotein (a) gene family, exon for 1st kringle 4 repeat	Homo saplens DNA for amyloid precursor protein, complete cds	Human integral membrane serine protease Seprase mRNA, complete cds	Homo saplens glutamate receptor, Ionotropic, kainate 1 (GRIK1) mRNA	Homo sapiens mRNA for KIAA1096 protein, partial cds	Homo saplens mRNA for KIAA1096 protein, partial cds	Homo sapiens wascr1 (WBSCR1) and wascr5 (WBSCR5) genes, complete cds, alternatively spliced and replication factor C subunit 2 (RFC2) gene, complete cds	Homo sapiens tumor necrosis factor receptor superfamily, member 5 (TNFRSF5) mRNA	Homo sapiens tumor necrosis factor receptor superfamily, member 5 (TNFRSF5) mRNA
EXOIT FIGURES E	Top Hit Database Source		EST_HUMAN R			T HUMAN	EST_HUMAN R	Ĭ	EST_HUMAN R			EST_HUMAN S				Ĭ	Ĭ		H	EST_HUMAN D	H	Ĭ	E F		H LN	H	H FN		
AIBIIC	Top Hit Acession No.	4502168 NT	DE-82 BE005705.1	5174702 NT	4502166 NT	DE-82 AA725848.1				4501922 NT	5453811 NT	E-82 AA135979.1	11425206 NT	11432889 NT	11432889 NT			2.0E-82 AB023216.1						4504116 NT				4507580 NT	4507580 NT
	Most Similar (Top) Hit BLAST E Value	3.0E-82	3.0E-82	3.0E-82	3.0E-82	3.0E-82	3.0E-82	3.0E-82	3.0E-82	3.0E-92	3.0E-82	3.0E-82	3.0E-82	3.0E-82	3.0E-82	3.0E-82	3.0E-82	2.0E-82	2.0E-82	2.0E-82	2.0E-82	2.0E-82	2.0E-82	2.0E-82	2.0E-82	2.0E-82	2.0E-82	2.0E-82	2.0E-82
	Expression Signal	14.77	2.11	8.87	3.37	39.06	1.11	2.15	1.59	1.18	2.54	0.92	2.5	0.82	0.82	5.16	5.18	2.48	2.48	1.52	1.47	1.03	0.62	99.0	1.38	1.38	2.59	1.38	1.36
	ORF SEQ ID NO:	25444	25847	25944	26035			26643	27085	27202		30065	33546	33949	33950		<u>ן</u>		25724	26857	28898	28973	29146	28347	29693	29694	30013	30223	30224
	Exon SEQ ID NO:	12955	13352	13437	13517	13704	13983	1	14529	14631	15921	17620	20834	21030	21030	[•		13250	14315	16436	16511	16890	16903	17238	17238	17569	i i	1
	Probe SEQ ID NO:	288	732	820	903	1099	1388	1515	1945	2050	3310	5047	8093	8491	8491	82.28	9738	623	623	1724	3837	3913	4095	4317	4658	4658	4995	5238	5239

Page 378 of 526 Table 4 Single Exon Probes Expressed In Fetal Liver

1		_	_	_	_	_	-	_	~	_	_	_		_	_	_	_	_		_	-	_	_	-	-	•	_	_	_	_				_
Single Exoli Floors Expressed III Fetal Livel	Top Hit Descriptor	Homo sapiens complement component 5 (C5) mRNA	Homo sapiens mRNA for KIAA0727 protein, partial cds	Homo sapiens FAM4A1 splice variant a (FAM4A1) mRNA, complete cds	tm21g05.x1 Soares_NFL_T_GBC_S1 Hamo sapiens cDNA clone IMAGE:2157272 3'	Homo saplens hypothetical protein FLJ20128 (FLJ20128), mRNA	Homo sapiens slit (Drosophila) homolog 3 (SLIT3), mRNA	Human endogenous retrovirus-K, LTR U5 and gag gene	Human endogenous retrovirus-K, LTR U5 and gag gene	Homo sapiens leucy/cystiny aminopeptidase (LNPEP), mRNA	Homo sapiens leucy/cystiny/ aminopeptidase (LNPEP), mRNA	Homo sapiens 3-hydroxy-3-methylglutaryl-Coenzyme A reductase (HMGCR), mRNA	Homo sapiens CAGF9 mRNA, partial cds	Homo sapiens CAGF9 mRNA, partial cds	zb31d10.s1 Soares_parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:305203 3'	zi01g09.r1 Scares_feta_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:429568 5'	Homo sapiens melanoma differentiation associated protein-5 (MDA5), mRNA	601510859F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3912207 5'	RC4-BT0310-110300-015-f10 BT0310 Homo sapiens cDNA	Homo sapiens mRNA for KIAA0538 protein, partial cds	Homo sapiens mRNA for KIAA1417 protein, partial cds	Homo sapiens mRNA for KIAA0662 protein, partial cds	UI-H-BW 1-soa-f-03-0-UI.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3084053 3'	Homo sapiens chromosome 21 segment HS21C009	Homo sapiens chromosome 21 segment HS21C046	602150403F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4291561 5'	801117180F1 NIH_MGC_16 Hamo sepiens cDNA clone IMAGE:3357734 5	601273348F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3614362 5	za48f12.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:285823 3'	QV4-LT0016-271299-068-h11 LT0016 Homo sapiens cDNA	no12h01.s1 NCI_CGAP_Phe1 Homo sapiens cDNA clone IMAGE:1100497.3' similar to contains Alu	repetitive element;	7p37e07.x1 NCI_CGAP_Pr28 Homo sepiens cDNA clone IMAGE:3647693 3' similar to TR:Q9Y316 Q9Y316 D1207H1.1;	Homo sapiens KIAA0100 gene product (KIAA0100), mRNA
EXOII FIODES	Top Hit Database Source	LN	L	L	EST_HUMAN	NT	L	TN	L	TN	Z	LN .	Z	FN	EST_HUMAN	EST_HUMAN	E	EST_HUMAN	EST_HUMAN	١	TN	ĮN.	EST_HUMAN	IN	TN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN		EST_HUMAN	EST_HUMAN	FZ
Bigliic	Top Hjt Acession No.	4502506 NT	2.0E-82 AB018270.1	2.0E-82 AF234882.1	2.0E-82 AI476428.1	8923130 NT	11321570 NT	Y08032.1	Y08032.1	11417191 NT	11417191 NT	11417105 NT	2.0E-82 U80736.1	J80736.1	194950.1	2.0E-82 AA011278.1	11545921 NT	1.0E-82 BE885108.1	1.0E-82 BE064386.1	1.0E-82 AB011110.2	1.0E-82 AB037838.1	4B014562.1	1.0E-82 BF515938.1	1.0E-82 AL163209.2	1.0E-82 AL163246.2	9.0E-83 BF672220.1	3E253347.1	8.0E-83 BE383973.1	V66951.1	7.0E-83 AW385529.1		7.0E-83 AA584655.1	7.0E-83 BF221813.1	11428657 NT
	Most Similar (Top) Hit BLAST E Value	2.0E-82	2.0E-82	2.0E-82	2.0E-82	2.0E-82	2.0E-82	2.0E-82 Y08032.1	2.0E-82	2.0E-82	2.0E-82	2.0E-82	2.0E-82	2.0E-82	2.0E-82 N94950.1	2.0E-82	1.0E-82	1.0E-82	1.0E-82	1.0E-82	1.0E-82	1.0E-82	1.0E-82	1.0E-82	1.0E-82	9.0E-83	9.0E-83	8.0E-83	8.0E-83	7.0E-83		7.0E-83	7.0E-83	7.0E-83
	Expression Signal	1.3	3.76	4.77	1.02	0.71	1.82	1.45	1.45	1.95	1.95	2.35	86.8	8.98	4.92	2.45	1.59	1.25	2.7	0.84	1.31	0.48	1.19	2.41	1.55	4.39	0.78	4.53	2.5	1		1.75	6.94	0.69
	ORF SEQ ID NO:	30301	30767	31705		33177	33707	35505	35506	66998	36700	36707	36741	36742			25718		26443	26444	34334	35032				34106	35664	26583		26523				31582
	Exon SEQ ID NO:	17882	18289	18929		20280	20788	22513	22513	23657	23657	23662	23693	23693	24140	24496	13245	13847	13923	13924	21411	22071	22638	23156	23408	21188	22670			13995		15507	17515	18812
	Probe SEQ ID NO:	5320	5662	6322	7673	7771	8247	10018	10018	11149	11149	11155	11188	11188	11737	12299	818	1250	1329	1330	8872	9571	10143	10624	10887	8649	10175	1459	1721	1401		2890	4940	6202

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Table 4
Single Exon Probes Expressed in Fetal Liver

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
428	13081	25555	3.97	6.0E-83	6.0E-83 M33320.1	Z	Human platelet Glycoprotein IIb (GPIIb) gene, exons 2-29
1822	14411	26956	2.07	6.0E-83	6.0E-83 AW 573088.1	EST_HUMAN	M31h03.x1 Soares_NFL_T_GBC_S1 Homo sepiens cDNA clone IMAGE:2933525 3' similar to SW:YBEB_HAEIN P44471 HYPOTHETICAL PROTEIN H10034.;
3087	15702		0.81	6.0E-83	AF231919.1	NT	Homo saplens chromosome 21 unknown mRNA
3619	16222	28700	1.18	6.0E-83	6.0E-83 11430241 NT	NT	Homo sapiens hypothetical protein FLJ10379 (FLJ10379), mRNA
5497	18131	30539	2.35	6.0E-83	4507866 NT	Į	Homo sapiens VAMP (vesicle-associated membrane protein)-associated protein A (33kD) (VAPA) mRNA, and translated products
6174	18785	31553		6.0E-83	AJ010770.1	PN	Homo sapiens hyperion gene, exons 1-50
7513	20034	32800	1.96	6.0E-83	6.0E-83 11422024 NT	F	Homo sapiens met proto-oncogene (hepatocyte growth factor receptor) (MET), mRNA
9594	22094	.35058	3.97	6.0E-83	4505314 NT	NT	Homo sapiens myomesin (M-protein) 2 (165kD) (MYOM2), mRNA
9884	22183	35157	7.7.2	6.0E-83	11430647 NT	ΝΤ	Homo sapiens pre-mRNA splicing factor similar to S. cerevisiae Prp18 (PRP18), mRNA
9684	22183	35158	2.77	6.0E-83	11430647 NT	Nī	Homo saplens pre-mRNA splicing factor similar to S. cerevisiae Prp18 (PRP18), mRNA
11405	23856		20.0	6.0E-83	6.0E-83 AA486105.1	EST HUMAN	ab14e10.s1 Stratagene lung (#037210) Homo sapiens cDNA clone IMAGE:840810 3' similar to contains THR.C THR repetitive element;
							Homo sapiens glutathlone S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1)
11685	24102		5.52	6.0E-83	6.0E-83 AF240786.1	LN	genes, complete cds
982	13594		10.4	5.0E-83	5.0E-83 U17883.1	NT	Human succinate dehydrogenase Iron-protein subunit (sdhB) gene, exon 5
2094	15397		1.12	5.0E-83	5.0E-83 AF006305.1	NT	Homo sapiens 26S proteasome regulatory subunit (SUG2) mRNA, complete cds
3700	16301	28769	86'0	5.0E-83	AL133207.2	NT	Novel human gene mapping to chomosome X
3977	16575	28045		5.0E-83	4885190 NT	NT	Homo sapiens deoxyribonuclease I (DNASE1), mRNA
4527	17111	29555	9'0	5.0E-83		NT	Homo sapiens chromosome 21 segment HS21C010
5238	17802	30221	13.17	5.0E-83	4557013 NT	NT	Homo sapiens catalase (CAT) mRNA
5238	17802	30222	13.17	5.0E-83	5.0E-83 4557013 NT	NT	Homo saplens catalase (CAT) mRNA
				20.			Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3
8	13292	25/73		4.0E-83		IN	(Udicaus) genes, complete cas
S S S S S	201	78630	1.0/	4.0E-83	4.0E-83 BE888078.1	ES HOMAN	OUIDITIOGUET NIT MGC_71 Hand Septents CUNA Clane IMAGE: 3913195 5
1035	13645		3.47	3.0E-83	3.0E-83 AA368311.1	EST_HUMAN	EST79542 Placenta I Homo sapiens cDNA similar to similar to endogenous retrovirus ERV9
6692	19288		0.68	3.0E-83	AI217223.1	EST_HUMAN	qf73e08.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1755682 3'
1835	14423	26973	1.31	2.0E-83	2.0E-83 AA983492.1	EST HUMAN	ot64g05.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1621592 3' similar to TR:092814 Q92814 MYELOBLAST KIAA0216.;
							ot64g05.s1 Soares Lestis_NHT Homo sapiens cDNA clone IMAGE:1621592 3' similar to TR:092614
1835	14423	26974		2.0E-83	2.0E-83 AA993492.1	EST HUMAN	Q92614 MYELOBILAST KIAA0216.
188	14553	27109		2.0E-83	N66951.1	EST HUMAN	2848112.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:295823 3'
2876	15494	27964	1.06	2.0E-83	BE828694.1	EST_HUMAN	RC6-ET0046-280600-013-H12 ET0046 Homo sapiens cDNA

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Table 4
Single Exon Probes Expressed in Fetal Liver

Probe SEQ ID NO:	SEQ ID	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
3307	15918		2 53		11430834 NT	Į	Homo sapiens sal (Drosonhiablika 1 (SAI I 1) mRNA
3842			87.0	305	A1 1632	Į.	Home canisase chromosoma 21 comman HS21Cn0
4429	L	29457	4.01	206	-83 AF202879.1	LZ	Homo sapiens hematopoietic progenitor cell antiden (CD34 precursor (CD34) mRNA partial cds
4756	17337	29781	4.54	2.0E-83	7706398 NT	LN	Homo sapiens ankyrin repeat-containing protein ASB-2 (LOC51676), mRNA
4756	17337	29782		2.0E-83	7706398 NT	Z	Homo sapiens ankyrin repeat-containing protein ASB-2 (LOC51676), mRNA
5475	H	30518	0.8	2.0E	-83 U06679.1	Z	Human carcinoembryonic antigen gene family member 18 (CGM18) gene, exons A1 and B1
6119			1.28	2.0E-83	-83 BE885401.1	EST_HUMAN	601507482F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3909068 5
7462			80'9	2.0E	-83 AF129533.1	F	Homo sapiens F-box protein Fbl3b (FBL3B) mRNA, partial cds
7784		33232		2.0E-83	-83 AB001025.1	Z	Homo sapiens mRNA for brain ryanodine receptor, complete cds
7784			65.0	2.0E-83	-83 AB001025.1	L	Homo sapiens mRNA for brain ryanodine receptor, complete cds
7928				2.0E-83	-83 U66707.1	LΝ	Rattus norvegicus densin-180 mRNA, complete cds
8256		33714	2.17	2.0E-83	-83 AF011920.1	LΝ	Homo sapiens protein kinase CK2 catalytic subunit alpha gene, exon 1
8256	20797	33715	2.17	2.0E-83	-83 AF011920.1	LN	Homo sapiens protein kinase CK2 catalytic subunit alpha gene, exon 1
9797		35278	99'0	2.0E	-83 BF128748.1	EST_HUMAN	601811127F1 NIH_MGC_48 Homo sapiens cDNA clone IMAGE:4053894 5'
9947	22442	35419	2.41	2.0E-83	-83 M22094.1	LN	Human neural cell adhesion molecule (N.CAM) secreted isoform mRNA, 3' end
9947			2.41	2.0E-83	-83 M22094.1	LN	Human neural cell adhesion molecule (N-CAM) secreted isoform mRNA, 3' end
10025		35516	1.12	2.0E	-83 AU117659.1	EST_HUMAN	AU117659 HEMBA1 Homo sapiens cDNA clone HEMBA1001910 5'
10092			84.0	2.0E	-83 AW 505600.1	EST_HUMAN	UI-HF-BNO-amd-h-07-0-UI.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3081852 5'
10729			4.96	2.0E-83	11436448 NT		Homo sapiens KIAA0885 protein (KIAA0985), mRNA
10806			1.95	2.0E-83	-83 AL134452.1	EST_HUMAN	DKFZp547J135_r1 547 (synonym: hfbr1) Homo sapiens cDNA clone DKFZp547J135 5'
10806		36341	1.95	2.0E	-83 AL134452.1	EST_HUMAN	DKFZp547J135_r1 547 (synanym: hfbr1) Hamo sapiens cDNA clone DKFZp547J135 5'
12342	24523		4.52	2.0E-83	-83 AB011399.1	N⊤	Homo sapiens gene for AF-6, complete cds
1457	14040	Casac	ç	, 10	1604236	E)4	Homo sapiens hydroxyacyl-Coenzyme A dehydrogenase/3-ketoacyl-Coenzyme A thiolase/enoyl-Coenzyme A
			3.7	20.1	4201250	2	Upon contains highway Comment Adhanas Adhanas (1990)
1457	14049	26581	2.83	1.0E-83	4504326 NT	Z	ndino septens nytroxyecyt-coenzyme A denytrogenasero-heldercyt-coenzyme A mioraserenoy-coenzyme A hydratase (trifunctional protein), beta subunit (HADHB) mRNA
1506	14098	26635	-		1.0E-83 AF105067.1	LN	Homo sapiens lipopolysaccharide-binding protein (LBP) mRNA, complete cds
1506	14098		15.48	1.0E	-83 AF105067.1	⊢Z.	Homo sapiens lipopolysaccharide-binding protein (LBP) mRNA, complete cds
2064		27218	1.11	1.0E-83	1.0E-83 4503652 NT	FZ	Homo sapiens fatty-acid-Coenzyme A ligase, very long-chain 1 (FACVL1) mRNA
2681			1.06			EST_HUMAN	601507375F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3908754 5'
3217	$_{\perp}$				32349	LN	Homo saplens cell recognition molecule Caspr2 (KIAA0868), mRNA
3936	-		5.6		5.1	L	Rattus norvegicus brain specific cortactin-binding protein CBP90 mRNA, partial cds
4328	16915	29359	2.45	1.0E-83	1.0E-83 Z25822.1	NT	H. sapiens gene for mitochondrial dodecenoyl-CoA delta-isomerase, exon 3

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Probe SEQ ID NO: NO: 3864 1338 1338 1338 1449 5709 5709 5709 11409 11409 11506 11506 11506 11506 11506 11506 11506 11506 11506 5751 5761 5761 5761	Exen SEQ ID NO: 19388 19393 13932 13932 13933 13	ORF SEQ ID NO: 28926 28926 28926 28455 28455 27580 31189 31189 33078 33078 37024 37024 37024 37026 370	Expression Signal 3.57 3.5 3.57 3.5 2.1.62 2.1.62 2.1.65 2		Top Hit Acession No. No. AIO27614.1 BEB38864.1 BEB38864.1 AA76574.1 AL042863.2 AA897339.1 AL042863.2 AA897339.1 AL042863.2 AA897339.1 AL042863.2 AA897339.1 AL042863.2 AA897339.1 AL042863.2 AA897339.1 AF038912.1 AF038911.1 AA382811.1 AA382811.1 AA382811.1 AH386168 AF069901.2 11386168 AF069901.1 11386168 AF069901.1	Top Hit Database Source Source T HUMAN T HUMAN T HUMAN T HUMAN T HUMAN T HUMAN T HUMAN	Ox68D68.x1 Scares_bests_NHT Homo sapiens cDNA clone IMAGE:1645431 3' similar to gb:M64241 QM PROTEIN (HUNAN); GGTG76023F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3958853 5' RC2-FN0119-200800-011-g05 FN0118 Homo sapiens cDNA RC2-FN0119-200800-011-g05 FN0118 Homo sapiens cDNA RC2-FN0119-200800-011-g05 FN0118 Homo sapiens cDNA RC2-FN0119-200800-011-g05 FN0118 Homo sapiens cDNA RC2-FN0119-200800-011-g05 FN0118 Homo sapiens cDNA RC2-FN0119-200800-011-g05 FN0118 Homo sapiens cDNA RC2-FN0119-200800-011-g05 FN0118 Homo sapiens cDNA RC2-FN0119-200800-011-g05 FN0118 Homo sapiens cDNA RC3-FN0119-200800-011-g05 FN0118 Homo sapiens cDNA Homo sapiens acetyl LDL receptor; SREC=scavenger receptor expressed by endothelial cells (SREC), mRNA Homo sapiens acetyl LDL receptor; SREC=scavenger receptor expressed by endothelial cells (SREC), mRNA Homo sapiens chemomon 3 subtementer receptor expression (RFX3), mRNA EST98094 Tests I Homo sapiens cDNA EST98094 Tests I Homo sapiens cDNA EST98094 Tests I Homo sapiens cDNA Homo sapiens regulatory festor X; Siffulences at ILA dass II expression) (RFX3), mRNA Homo sapiens regulatory festor X; Siffulences at IIA dass II expression) (RFX3), mRNA Homo sapiens regulatory festor X; Siffulences at IIA dass II expression (RFX3), mRNA Homo sapiens regulatory festor X; Siffulences at IIA dass II expression (RPX3), mRNA Homo sapiens protein hymosine protein hymosine receptor (PPRG), mRNA Homo sapiens protein hymosine protein hymosine receptor (PPRG), mRNA Homo sapiens protein hymosine protein hymosine receptor (PPRG), mRNA Homo sapiens protein hymosine protein hymosine receptor (PPRG), mRNA Homo sapiens protein hymosine protein hymosine receptor (PPRG), mRNA Homo sapiens protein hymosine protein hymosine receptor (PPRG), mRNA Homo sapiens protein hymosine protein hymosine receptor (PPRG), mRNA Homo sapiens protein hymosine protein hymosine receptor (PPRG), mRNA Homo sapiens histone deceptors (PPRG), protein protein hymosine receptors (PPRG), mRNA) Homo sapiens KNANA (PRA
8842		34305	1.06	4.0E-84	4557526 4557526	TN F1	Homo sapiens discs, large (Drosophila) homolog 2 (chapsyn-110) (DLG2) mRNA Homo sapiens discs, large (Drosophila) homolog 2 (chapsyn-110) (DLG2) mRNA Homo sapiens mBNA for KIAA130 metals presided ode
10798	12890	25477	1.97	3.0E-84	E-84 AB03Z956.1 E-84 AF026200.1	Z LX	Homo saptens mixina for kilaal 130 protein, partial cds. Homo saptens Bacht protein homolog mRNA, partial cds.

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	Top Hit Descriptor	Homo sapiens chondroitin sulfate proteoglycan 2 (versican) (CSPG2) mRNA	Homo sapiens pericentriolar material 1 (PCM1) mRNA	Novel human mRNA containing Zinc finger C2H2 type domains	Homo sapiens X-linked juvenile retinoschisis precursor protein (XLRS1) mRNA, complete cds	wu20405.x1 Soares_Dieckgreefe_colon_NHCD Homo sapiens cDNA clone IMAGE:2520585.3' similar to gb:L05093 60S RIBOSOMAL PROTEIN L18A (HUMAN);	CM1-BT0795-190600-272-b08 BT0795 Homo sapiens cDNA	CM1-BT0795-190600-272-b08 BT0795 Homo sapiens cDNA	Homo sapiens myelin transcription factor 1-like (MYT1-I) mRNA, complete cds	H.sapiens DNA for endogenous retroviral like element	UI-H-Bi4-ed-a-02-0-UI s1 NCI_CGAP_Sub8 Homo sepiens cDNA clone IMAGE:3084963 3'	UI-H-BI4-ed-e-02-0-UI.s1 NCI_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3084963 31	yr56e11.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE 209324 3*	qm87c09.x1 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1895728 3'	AU120280 HEMBB1 Homo sapiens cDNA clone HEMBB1000339 5'	ym49e11.r1 Soeres infant brain 1NIB Homo sapiens cDNA clone IMAGE:51383 5' similar to SP.APOH_RAT P28644 BETA.2.GLYCOPROTEIN I	nee30a02.x1 Lupski_sympathetic_trunk Homo sapiens cDNA clone IMAGE:4090251 3' similar to TR:09UGS3 Q9UGS3 DJ756G23.1;	nae30a02.x1 Lupski sympathetic_trunk Homo sapiens cDNA clone IMAGE:4090251 3' similar to TR:09UGS3 Q9UGS3 DJ756G22.1:	Homo sepiens intersectin short isoform (ITSN) mRNA, complete cds	Homo sapiens tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, zeta polypeptide (YWHAZ) mRNA	Homo sapiens complement component 5 (C5), mRNA	am85b11.s1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:1629885 3	601308006F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3826257 5'	Homo sepiens pericentriolar material 1 (PCM1), mRNA	Homo sapiens ubiquitin specific protease 13 (isopeptidase T-3) (USP13) mRNA	Homo sapiens ublquifin specific protease 13 (isopeptidase T-3) (USP13) mRNA	mw12e06.s1 NCI_CGAP_SS1 Hamo sapiens cDNA clone IMAGE:1239106 3'	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22; segment 1/3	DKFZp434N0323_r1 434 (synonym: htes3) Homo saplens cDNA clone DKFZp434N0323 5'	DKFZp434N0323_r1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434N0323 5'
	Top Hit Database Source	IN	Ŋ	N	N T	EST HUMAN	EST HUMAN	EST HUMAN	N	LN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST HUMAN	EST_HUMAN	EST HUMAN	EST_HUMAN	EST HUMAN	NT	ΙN	Į.	EST_HUMAN		NT	Z	NT	EST_HUMAN	L	EST_HUMAN	EST_HUMAN
	Top Hit Acession No.	4758081 NT	5453855 NT	3.0E-84 AL096880.1	-84 AF014459.1	-84 AI983801.1	2.0E-84 BE695397.1	2.0E-84 BE695397.1	-84 AF036943.1	2.0E-84 X89211.1	2.0E-84 BF511575.1	-84 BF511575.1	163370.1	2.0E-84 AI298674.1	-84 AU120280.1	-84 H22841.1	-84 BF448000.1		1.0E-84 AF114488.1	4507952 NT	11427631 NT		1.0E-84 BE392137.1	11427197 NT	4507848 NT	4507848 NT				-84 AL043314.2
Most Similar	≢ W _	3.0E-84	3.0E-84	3.0E-84	3.0E-84	3.0E-84	2.0E-84	2.0E-84	2.0E-84 /	2.0E-84	2.0E-84	2.0E-84	2.0E-84 H63370.1	2.0E-84	2.0E-84	2.0E-84 h	2.0E-84	2.0E-84	1.0E-84 /	1.0E-84	1.0E-84	1.0E-84 /	1.0E-84 E	1.0E-84	1.0E-84	1.0E-84	1.0E-84	1.0E-84 /	1.0E-84 /	1.0E-84 /
	Expression Signal	0.86	1.93	1.94	5.94	10.76	99.9	99.9	11.6	1.3	1.02	1.02	1.04	1.51	0.89	0.55	1.69	1.69	1.61	7.74	4	3.89	2.49	1.21	1.09	1.09	2.92	90.9	3.09	3.09
	ORF SEQ ID NO:			27203	28876	1	27304	27305	28068	28085	30849	30850	32148		34744	35117	31021	31022	25473	25685		26449	27246	27415	28035	28036	28878	29539	29837	29838
	SEQ ID NO:				16411	23282	14730	L		15605			19341	20543	21795	22146	24279	24279	12986	13205	13369	13930				- 1		17092		
	SEQ ID NO:	1194	2003	2051	3812	10758	2153	2153	2970	2989	5717	5717	6748	8001	9269	9647	11954	11954	334	575	749	1336	2088	2265	2945	2945	3814	4508	4809	4809

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		21q22; segment 1/3		numan, uterus, mRNA, 1340																									mRNA	HRNA	
session Top Hit	op hit Description	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22; segment 1/3	Homo sapiens specide-type POZ protein (SPOP), mRNA	uterine water channel=28 kda erythrocyte integral membrane protein homolog [human, uterus, mRNA, 1340] nt]	Novel human gene mapping to chomosome 13	Novel human gene mapping to chomosome 13	Novel human gene mapping to chomosome 13	Homo sapiens polymerase (DNA directed), alpha (POLA), mRNA	Homo sapiens NGFI-A binding protein 1 (ERG1 binding protein 1) (NAB1), mRNA	Homo sapiens NGFI-A binding protein 1 (ERG1 binding protein 1) (NAB1), mRNA	Homo sapiens nuclear transport factor 2 (placental protein 15) (PP15) mRNA	Homo sapiens Ca2+-binding protein CABP3 (CABP3) gene, exon 6 and partial cds	Homo sapiens ubiquitin specific protease 13 (isopeptidase T-3) (USP13) mRNA	Homo sapiens ubiquitin specific protease 13 (isopeptidase T-3) (USP13) mRNA	Homo sapiens purinergic receptor P2X-like 1, orphan receptor (P2RXL1), mRNA	Homo sapiens aconitase 2, mitochondriai (ACO2), mRNA	Homo sapiens chromosome 21 segment HS21C009	Homo sapiens nuclear protein Skip mRNA, complete cds	Homo sapiens nuclear protein Skip mRNA, complete cds	Homo sapiens leupavin (LDPL), mRNA	Human plasminogen gene, exon 7	Human plasminogen gene, exon 7	Homo sapiens DKFZp434P211 protein (DKFZP434P211), mRNA	Homo sapiens chromosome 21 segment HS21C080	Homo sapiens heat shock transcription factor 2 binding protein (HSF2BP), mRNA	Homo sapiens chromosome 21 segment HS21C068	Homo sapiens ribosomal protein L27 mRNA, complete cds	Homo sapiens MSTP030 mRNA, complete cds	Hamo sapiens DEAD/H (Asp-Glu-Ale-Asp/His) box polypeptide 10 (RNA helicase) (DDX10), mRNA	Homo sapiens DEAD/H (Asp-Gly-Ale-Asp/His) box polypeotide 10 (RNA helicase) (DOX10) mRNA	Homo sapiens chromosome 21 segment HS21C084
T & Hit	Source	NT	TN	١	NT	LN T	NT	LN	TN	TN	LN	ΤN	TN	FN	LN	LN	LN⊤	LN⊤	LN	TN	NT	LN	LN	NT	ΙN	ΝΤ	NT	NT	NT	LN	NT
Top Hit Acession	Ö	JE-84 AJ229041.1	11434422 NT	JE-84 S73482.1	E-84 AL049784.1	E-84 AL049784.1	E-84 AL049784.1	8393994 NT	11430846 NT	11430846 NT	5031984 NT	DE-84 AF224511.1	4507848 NT	4507848 NT	11417812 NT	8185	2			669			9.0E-85 7657020 NT		5901979 NT	9.0E-85 AL163268.2	E-85 L05094.1	0.1	11438573 NT	11438573 NT	5.0E-85 AL163284.2
Most Similar (Top) Hit	BLAST E Vatue	-	1.0	2.	1.0E-84	1.0E-84	1.0E-84	1.0E-84	1.0E-84	1.0E-84	1.0E-84	1.0E-84	1.0E-84	1.0E-84	1.0E-84	1.0E-84	9.0E-85	9.0E-85 U51432.1	9.0E-85	9.0E-85	9.0E-85	9.0E-85	9.0E-85	9.0E-85	9.0E-85	9.0E-85	7.0E-85	7.0E-85	6.0E-85	6.05-85	5.0E-85
Expression	Signal	3.8	0.81	1.46	1.83	1.83	2.39	3.27	1.18	2.45	4.5	0.58	2.37	2.37	2.44	3.97	4.54	6.29	6.29	1.35	9.44	9.44	2.45	0.97	96.0	1.02	10.28	11.38	3.15	3.15	1.09
	Ö Ö	29539		31722	32361	32362			32958	32959		35159				31017			26225							30000	26287		36803	36804	
Exon	NO.	17092	18696	18943	19538	19538	19694	20009	1	1 1	21980	22184	15561	15561	24198	24274	13613	13715	13715	14017	14215			16925	17579	17811	13777	23948	23746	23746	14941
Probe) 0 0 0 0	5037	6079	6337	6981	6961	7162	7486	7565	7598	8454	9685	9208	9206	11833	11943	1002	1111	1111	1424	1622	1622	1714	4338	9009	5038	1175	11499	11294	11294	2371

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				•		
Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
17109		65.0	58-30'S	-85 AF211189.1	LΝ	Homo sapiens T-type calcium channel alpha1 subunit Alpha11-a isoform (CACNA1) mRNA, complete cds
18271	30744	1.42	5.0E-85	-85 BF035674.1	EST_HUMAN	601458648F1 NIH_MGC_66 Homo sepiens cDNA clone IMAGE:3862402 5'
18271	30745	1.42	5.0E	-85 BF035674.1	EST_HUMAN	601458646F1 NIH_MGC_66 Homo sepiens cDNA clone IMAGE:3862402 5'
23512	36545	1.95	5.0E	-85 AF224669.1	TN	Homo sapiens mannosidase, beta A, Iysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3 (UBE2D3) genes, complete cds
17109		3.17	5.0E-85		. LN	Homo sapiens T-type calcium channel alpha1 subunit Alpha11-a isoform (CACNA11) mRNA, complete cds
18905	31675	1.63	4.0E-85	E-85 BF677910.1	T HUMAN	602084730F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE: 4249087 5
18905	31676	1.63	4.0E-85		EST HUMAN	602084730F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4249087 5
22958			4.0E	-85 BE079263.1	EST_HUMAN	RC1-BT0623-120200-011-c07 BT0623 Homo sapiens cDNA
13937	26458	98.0	30.€	-85 AF096157.1	LN	Homo sapiens protein phosphatase 2A BR gamma subunit gene, exon 6
14406			30'€	-85 T97495.1	EST_HUMAN	ye53g09.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:121504 5'
16990		0.93	3.0E-85	-85 BE267189.1	EST_HUMAN	601189704F2 NIH_MGC_7 Homo sapien's CDNA clone IMAGE:3533616 5'
17599		1.44	3.0E-85	11024695 NT		Homo sapiens F-box only protein 24 (FBXO24), mRNA
17599		1.44	3.0E-85	11024695 NT	INT	Homo sapiens F-box only protein 24 (FBXO24), mRNA
18891		6.49	30.E	1082309 NT	LN	Homo sapiens KIAA0793 gene product (KIAA0793), mRNA
18891	31660		30.E	1962309 NT	TN	Homo sapiens KIAA0793 gene product (KIAA0793), mRNA
19566		7.22	3.0E-85	-85 AJ404468.1	TN	Homo sapiens mRNA for dynein heavy chain (DNAH9 gene)
19952	32817	96:0	3.0E-85	11416870 NT	ΙN	Homo sapiens GTPase regulator associated with the focal adhesion kinase pp125(FAK); KIAA0621 protein (KIAA0621), mRNA
20356		1.55	3.0E-85	-85 U44953.1	LN L	Homo sapiens DENN mRNA, complete cds
20985	33900	0.78		11525829 NT	Į.	Homo sapiens CGI-81 protein (LOC51108), mRNA
21447			3.0E-85	11430889NT	LN	Homo sapiens phospholipase C, epsilon (PLCE), mRNA
21952	34901	1.32	3.0E-85	11421422 NT	N	Homo sapiens small nuclear ribonucleoprotein polypeptide B" (SNRPB2), mRNA
21952	34902	1.32	3.0E-85	11421422 NT	Į,	Homo sapiens small nuclear ribonucleoprotein polypeptide B" (SNRPB2), mRNA
22871			3.0E	-85 AF098642.1	FZ	Homo sapiens phospholipid scramblase mRNA, complete cds
23832	36895	2.25		5031660 NT	LN	Homo sapiens EGF-like repeats and discoidin I-like domains 3 (EDIL3), mRNA
24595		2.19	3.0E-85	11418177 NT	LZ L	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
13609	26124	3.12	2.0E-85	TN 99272697		Homo sapiens KIAA0929 protein Msx2 Interacting nuclear target (MINT) homolog (KIAA0929), mRNA
13683		2.1	2.0E-85	-85 AF248540.1	IN	Homo sapiens intersectin 2 (SH3D1B) mRNA, complete cds
14042			2.0E	7708205 NT	Į.	Homo sapiens CGI-201 protein (LOC51340), mRNA
14057		32.65		5174775 NT	TN	Homo sapiens apolipoprotein C-II (APOC2) mRNA

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									ontains element							453	45.3											93.	93,			AN	
Top Hit Descriptor	Homo sapiens apolipoprotein C-II (APOC2) mRNA	Human DNA polymerase beta gene, exons 12 and 13	Homo sapiens similar to rat integral membrane plycoprotein POM121 (POM121L1), mRNA	Human Ku (p70/p80) subunit mRNA, complete cds	Homo saplens plasminogen (PLG) mRNA	Homo saplens redin (RELN) mRNA	Homo sapiens chromosome 21 segment HS21C084	Homo sapiens arginase, liver (ARG1) mRNA	wi67h08.x1 NCI_CGAP_Kid12 Homo septens cDNA clone IMAGE:2398431.3' similar to contains element MSR1 repositive element:	wd49d03.x1 Sogres, NFL, T GBC S1 Homo sapiens cDNA clone IMAGE:2331461.3'	wm94d12.x1 NCI CGAP Ut2 Homo saplens cDNA clone IMAGE: 2443607 3	601591416F1 NIH_MGC_7 Hamo sapiens cDNA clane IMAGE:3945818 5'	801482817F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3886021 5'	601462817F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3866021 5'	601109738F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3350553 5	2/45/03.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:453245 3	2/45/03.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:453245 3	601897003F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4126440 5'	601897003F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4126440 5	Human mRNA for T-cell cyclophilin	qi56a07.x1 NCI_CGAP_Brn25 Hamo sapiens cDNA clone IMAGE:1860468 3'	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA	601120778F1 NIH_MGC_20 Hamo sapiens cDNA clane IMAGE:2967690 5	Homo saplens similar to CDC28 protein kinase 1 (H. saplens) (LOC63041), mRNA	Homo sapiens cytochrome P450, subfamily IIF, polypeptide 1 (CYP2F1) mRNA	Homo sapiens KIAA0680 gene product (KIAA0680), mRNA	aj88f08.s1 Soares_parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:1403559 3	aj88f08.s1 Soares_parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:1403559 37	Homo sapiens tumor endothelial marker 7 precursor (TEM7), mRNA	Homo sapiens tumor endothelial marker 7 precursor (TEM7), mRNA	Homo sapiens Tax1 (human T-cell leukernia virus type I) binding protein 1 (TAX1BP1), mRNA	Homo sapiens galactocerebrosidase (GALC) gene, exon 15
Top Hit Database Source	LΝ	Z	L	Z	LN LN	Ę	FZ	LZ LZ	FST HIMAN	EST HUMAN	EST HUMAN	EST HUMAN		EST HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST HUMAN	FN	EST_HUMAN	NT	NT	EST_HUMAN	NT	Ę	N F	EST_HUMAN	EST_HUMAN	LZ	NT	TN	NT
Top Hit Acessian No.	5174775 NT	0E-85 U10525.1	7657468 NT	0E-85 M30938.1	4505880 NT	4826977 NT	0E-85 AL163284.2	4502212 NT	0F-85 A1760820 1	0E-85 Al914459.1	0E-85 AI886384.1	0E-85 BE794306.1	0E-85 BE618392.1	0E-85 BE618392.1	0E-85 BE257917.1	0E-85 AA778785.1	0E-85 AA778785.1	0E-85 BF311552.1	0E-85 BF311552.1	DE-85 Y00052.1	DE-85 AI198420.1	11417862 NT	11417862 NT	9.0E-86 BE274217.1	11424140 NT	4503224 NT	7662247 NT	0E-86 AA860801.1	DE-86 AA860801.1	9966886 NT	9966886 NT	11421737 NT	DE-86 L38557.1
Most Similar (Top) Hit BLAST E Value	2.0E-85	2.0E-85	2.0E-85	2.0E-85	2.0E-85	2.0E-85	2.0E-85	2.0E-85	205-85	2.0E-85	2.0E-85	1.0E-85	1.0E-85	1.0E-85	1.0E-85	1.0E-85	1.0E-85	1.0E-85	1.0E-85	1.0E-85	1.0E-85	1.0E-85	1.0E-85	9.0E-86	8.0E-86	8.0E-86	7.0E-86	7.0E-86	7.0E-86	7.0E-86	7.0E-86	7.0E-86	7.0E-86
Expression Signal	32.65	2.27	8.53	1.18	7.95	8.24	1.19	1.73	1.33	8	1.38	2.43	8.28	8.20	2.03	2.67	2.67	2.59	2.59	2.48	2.17	4.42	5.48	17.55	1.65	1.65	0.68	1.06	1.06	1.01	1.01	5.8	3.41
ORF SEQ ID NO:		27424		28149		29700		30297	34658				27576		35168	36337	36338	36413	36414	36482	37114	69608	69608		31651	37063	25384	26096	26097				34138
Exon SEQ ID NO:	14057	14848	13976	15673	17013	17246	17610	17875	21714	22067	22658		15004	15004	22195	23327	23327	23397	23397	23459	24048	24363		14067	18883	13881	12903		13583			. 1	21218
Probe SEQ ID NO:	1465	2274	2850	3057	4427	4664	5036	5313	9197	9567	10163	2326	2437	2437	9696	10804	10804	10876	10876	10943	11605	11838	12098	1475	6275	11543	244	972	972	6343	6343	7053	8679

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Single Exoli Flobes Explessed II Fetal Liver	sion Top Hit Descriptor Top Hit Descriptor Source	5453997 NT Homo sapiens RAN binding protein 7 (RANBP7), mRNA	3307 NT Homo sapiens DiGeorge syndrome critical region gene 6 (DGCR6), mRNA	1012 NT Homo sapiens similar to transcription factor CA150 (H. sapiens) (LOC63170), mRNA		Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced		T_HUMAN	EST_HUMAN 601176865F1 NIH_MGC_17 Homo sepiens cDNA clone IMAGE:3531953 5'	EST_HUMAN 601072594F1 NIH_MGC 12 Homo sepiens cDNA clone IMAGE:3458830 5	EST_HUMAN 601443262F1 NIH_MGC_65 Homo sepiens cDNA clone IMAGE:3847455 5	П	EST_HUMAN AV722329 HTB Homo sapiens cDNA clone HTBBSD04 5	EST_HUMAN 601509696F1 NIH MGC 71 Homo septiens cDNA clone IMAGE:3911303 5	Г	Г	EST_HUMAN 601302333F1 NIH_MGC_21 Homo sapiens cDNA cione IMAGE:3636753 5'	EST_HUMAN EST177232 Jurkat T-cells VI Homo septiens cDNA 5' end	NT Homo sapiens chromosome 21 segment HS21 0003	EST_HUMAN yz19a08.r1 Soares_multiple_sclerosis_2NbHMSP Homo sapiens cDNA clone IMAGE::283478 5		EST_HUMAN EST378215 MAGE resequences, MAGI Homo sapiens cDNA		NT Homo sepiens lysophosphatidic acid acytransferase-deta (LPAAT-detta) mRNA, complete cds	EST_HUMAN hd87g08.x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2916542 3'	NT Homo sapiens cAMP-specific phosphodiesterase 8A (PDE8A) mRNA, partial cds	NT H sepiens mRNA encoding phospholipase c	NT H.sepiens mRNA encoding phosphotipase c	Homo sapiens similar to ectonuclectide pyrophosphatase/phosphodiesterase 3 (H. sapiens) (LOC63214),			NT Homo sapiens chromosome 21 segment HS21C027	Homo sapiens butyrobetaine (gamma), 2-oxoglutarate dioxygenase (gamma-butyrobetaine hydroxylase) 135 NT (BBOX), mRNA
מומוס	Top Hit Acession No.	5453997	11526307 NT	11417012 NT	11417012 NT	7.0E-86 AF223391.1	4505492 NT	4.0E-86 BE547173.1	-86 BE295843.1	-86 BE547173.1	-86 BE867703.1	-86 AW 340946.1	-86 AV722329.1	-86 BE886479.1	-86 BE886479.1	-86 AI659240.1	-86 BE410354.1	AA306264.1	2.0E-86 AL163203.2	-86 N58977.1	9635487 NT	2.0E-86 AW966142.1	:-86 AF156776.1	:-86 AF156776.1	-86 AW515742.1	-86 AF056490.1	-86 216411.1	-86 Z16411.1	20,000	IN 67461411	2.0E-86 U84744.1	-86 AL163227.2	11437135 NT
	Most Similar (Top) Hit BLAST E Value	7.0E-86	7.0E-86	7.0E-86	7.0E-86	7.0E-86	8-90.9	4.0E-86	4.0E-86	4.0E-86	3.0E-86	3.0E-86	3.0E-86	3.0E-86	3.0E-86	3.0E-86	3.0E-86	2.0E-86	2.0E-88	2.0E-86	2.0E-86	2.0E-86	2.0E-86	2.0E-86	2.0E-86	2.0E	2.0E	2.0E	20 20 0	2.05-90	2.0E-86	2.0E-86	2.0E-86
	Expression Signal	1.53	1.82	2.38	2.38	2.7	2.34	2.46	10.88	1.86	0.64	6.23	1.15	3.12	3.12	10.63	3.18	2.08	2.33	2.18	1.95	1.38	2.89	2.89	3.01	3.25	1.55	1.55	9	0.00	9	0.54	2.19
	ORF SEQ ID NO:				36378	37137	26450	25373	31563	25373	29410	31123	33658	35606		36018		25429		26345				28873			31392	31383	racut				33969
	SEQ ID NO:			23362		24077	13931	12886	18795	12886	16964	18407	20746	22616	22616	23010	24893	12944	13072	13831	14808	16069	16408	16408	16707	17479	18651	18651	04.770	2//42	20484	20933	21048
	Probe SEQ ID NO:	9616	9673	10841	10841	11638	1337	226	6185	11120	4377	5782	8202	10121	10121	11312	11808	288	439	1232	2233	3462	3809	3809	4113	4904	6032	6032	7494	104	726/	8	8509

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	-			Most Similar			
	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	(Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
	21048	33970	2.19	2.0E-86	11437135 NT	ΕN	Homo sapiens butyrobetaine (gamma), 2-oxoglutarate dioxygenase (gamme-butyrobetaine hydroxylase) (BBOX), mRNA
	21373	34298	1.29	2.0E-88	10863876 NT	TN	Homo sapiens phospholipid scramblase 1 (PLSCR1), mRNA
	21768	34717	2.06	2.0E-86		NT	Homo sapiens chromosome segregation 1 (yeast homolog)-like (CSE1L), mRNA
	22838	35833	2.82	2.0E-86	11545846 NT	LN	Homo sapiens basic-helix-loop-helix-PAS protein (NPAS3), mRNA
Ш	22838	35834	2.82	2.0E-88	11545846 NT	NT	Homo sapiens basic-helix-toop-helix-PAS protein (NPAS3), mRNA
Ш	22841	35837	1.85	2.0E-86	11417120 NT	TN.	Homo sapiens hypothetical protein FLJ20125 (FLJ20125), mRNA
Ш	22891	35885	0.85	2.0E-86	AB037832.1	TN	Homo sapiens mRNA for KIAA1411 protein, partial cds
Ш	23308	36315	19.	2.0E-86	4759051 NT	NT	Homo sapiens ribosomal protein S6 klnase, 90kD, polypeptide 5 (RPS6KA5) mRNA
12269	24476	30935	3.82	2.0E-86	11418189 NT	NT	Homo sapiens thyroid autoantigen 70kD (Ku antigen) (G22P1), mRNA
Ĺ_	24586		3.38	2.0E-86	-86 AB011399.1	IN	Homo sapiens gene for AF-6, complete cds
	14233	26767	1.33	1 0F-86	4828855 NT	F	Homo sapiens NADH dehydrogenese (ubiquinone) Fe-S protein 1 (75kD) (NADH-coenzyme Q reductase) (NDUFS1) mRNA
	15810	28283	1.54	1.0E-86		LZ	Homo sapiens fibulin 5 (FBLN3) mRNA
3272	15884	28366	3.1	1.0E-86	-86 L20492.1	LN	Human gamma-glutamy/ transpeptidase mRNA, complete cds
1	15945	28420	1.24	1.0E-86	-86 AL163209.2	NT	Homo sapiens chromosome 21 segment HS210009
[15945	28421	1.24	1.0E-86	1.0E-86 AL163209.2	Z	Homo sapiens chromosome 21 segment HS210009
	16618	28080	96.0	1.0E-88	7708181 NT		Homo sapiens hypothetical protein (LOC51318), mRNA
	16816	29091	96.0	1.0E-86	7708161 NT		Homo sapiens hypothetical protein (LOC51318), mRNA
	16938	29380	5.98	1.0E-86	1.0E-86 AL163300.2	TN.	Homo sapiens chromosome 21 segment HS21C100
	17815	30059	6.0	1.0E-88	-86 AF100751.1	NT	Homo sapiens FK506-binding protein FKB23 isoform mRNA, complete cds
	18367	31074	1.62	1.0E-86	-86 AL163284.2	LN	Homo sapiens chromosome 21 segment HS21C084
	18191		1.72	9.0E-87	-87 AI150703.1	EST_HUMAN	qb77c09.x1 Soares_fetal_heart_NbHH19W Homo sapiens cDNA clone IMAGE:1706128 3' similar to SW:K1CJ_MOUSE P02535 KERATIN, TYPE I CYTOSKELETAL 10;
7472	19994	32857	1.78	9.0E-87	475721 NT	TN	Homo sapiens a disintegrin and metalloproteinase domain 22 (ADAM22), mRNA
7472	19994	32828	1.78	9.0E-87	475721 NT	LN	Homo sapiens a disintegrin and metalloproteinase domain 22 (ADAM22), mRNA
205	13137	25625	84.08	8.0E-87		ĹN	O.cuniculus mRNA for elongation factor 1 alpha
2335	14906	27477	2.29	7.0E-87	7.0E-87 BF063211.1	EST_HUMAN	7h85f02.x1 NCI_CGAP_Co16 Homo sapiens cDNA clone IMAGE:33227793'
	14908	27478	2.29	7.0E-87	:-87 BF063211.1	EST_HUMAN	7h85f02x1 NCI_CGAP_Co16 Homo sapiens cDNA clone IMAGE:3322779 3'
	19133	31926	0.86	7.0E-87	-87 AW890336.1	EST_HUMAN	MR0-NT0039-020500-004-a11 NT0039 Homo sapiens cDNA
8130	20671	33581	2.87	7.0E-87	:-87 BF352776.1	EST_HUMAN	IL3-HT0619-060700-198-D10 HT0619 Homo sapiens cDNA
\Box	20314	33216	19.0	7.0E-87	:-87 BE712961.1		IL5-HT0702-160600-103-d06 HT0702 Homo sepiens cDNA
9983	22478	35460	3.7	7.0E-87	7.0E-87 AL043314.2	╗	DKFZp434N0323_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434N0323 5'
_ [22478	35461	3.7	7.0E-87	E-87 AL043314.2	EST_HUMAN	DKFZp434N0323_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434N0323 5

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Table 4
Single Exon Probes Expressed in Fetal Liver

Single Excit Probes Expressed in Petal Liver	Top Hit Descriptor Top Hit Descriptor Source	NT Human mRNA from chromosome 15 gene with homology to MHC-HLA-SB-1 intron A	NT Human mRNA from chromosome 15 gene with homology to MHC-HLA-SB-1 intron A		NT Homo sapiens mRNA for KIAA1081 protein, partial ods		HOMAN	HUMAN	Т	NT Homo sapiens mRNA for KIAA1414 protein, partial cds	y80/10.r1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:145579 5' similar to contains Alu EST HUMAN repetitive element:	r _i			NT Homo sapiens chromosome 21 segment HS21C081	SWISSPROT ETS-RELATED PROTEIN 71 (ETS TRANSLOCATION VARIANT 2)	Г	TCBAP1E4051 Pediatric pre-B cell scute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens EST HUMAN cDNA clone TCBAP4051					812 NT	420 NT	EST_HUMAN	EST_HUMAN	EST_HUMAN CM0-TN0038-150900-552-h08 TN0038 Homo sapiens cDNA	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN
CI BIBINO	Top Hit Acession No.			7657213 NT	6.0E-87 AB029004.1 NT	11432444 NT	5.0E-87 AA382811.1 ES	5.0E-87 AA382811.1 ES		4.0E-87 AB037835.1 NT		7706299	7706299 NT	5174574 NT	4.0E-87 AL163281.2 NT			=		11417339 NT	11417862 NT	11417862 NT	11417812 NT	4885420 NT					2.0E-87 BE734180.1 ES		
	Most Similar (Top) Hit BLAST E Value	7.0E-87 K03002.1	7.0E-87	8.0E-87	6.0E-87	6.0E-87	5.0E-87	5.0E-87	4.0E-87	4.0E-87	4.0E-87 R78133.1	4.0E-87	4.0E-87	4.0E-87	4.0E-87	4.0E-87 000321	4.0E-87 U85429.1	4.0E-87	4.0E-87 M60676.1	4.0E-87	4.0E-87	4.0E-87	4.0E-87	2.0E-87	2.0E-87	2.0E-87 /	2.0E-87	2.0E-87	2.0E-87	2.0E-87	2.0E-87
	Expression Signal	-	11	0.82	1.54	6.8	2.58	2.47	0.85	11.73	3.14	2.57	2.57	1.82	0.92	11.09	0.72	4.42	5.04	2.12	1.81	1.81	17.18	2.34	1.1	0.78	9.0	12.69	12.69	6.41	2.12
	ORF SEQ ID NO:			28665	31947		26313	26313			26605			28595			31273	31575			30623	30624		27924				31191	31192		32206
	Exon SEQ ID NO:	23294		16183	19151	23137	13801	13801	13612	13814	14068	15033	15033	16116	17994		18547	18806	ll				- 1			ı			18466	19069	19391
	Probe SEQ ID NO:	10770	10770	3579	6553	10603	1200	12100	1001	1214	1476	2488	2466	3511	5439	5637	5925	6196	11044	11623	12202	12202	12371	2805	2975	3852	5039	5842	5842	8468 8468	8800

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		Γ	Γ								Γ			Γ			Γ		Γ	Γ	Γ		Γ										П		7
Single Exon Probes Expressed in retail. Liver	Top Hit Descriptor	AV654143 GLC Home sapiens cDNA clone GLCDSG04 3'	601176032F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531511 5'	Homo sapiens hect domain and RLD 2 (HERC2), mRNA	yv21e07.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:243396 5'	yv21e07.r1 Sogres fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:243396 5'	Human cyclophilin gene for cyclophilin (EC 5.2.1.8)	601278315F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3610539 5'	Homo sapiens putative glycolipid transfer protein (LOC51054), mRNA	PM2-CT0265-141099-001-g04 CT0265 Homo sapiens cDNA	PM2-CT0265-141099-001-904 CT0265 Homo sapiens cDNA	Human mRNA for T-cell cyclophilin	Homo sapiens neuretin III (NRXN3) mRNA	Rattus norvegicus taste bud receptor protein TB 641 (TB 641) gene, complete cds	Homo sapiens growth factor receptor-bound protein 10 (GRB10) gene, exon 8	Homo sapiens growth factor receptor-bound protein 10 (GRB10) gene, exon 8	Homo sapiens corticotropin-releasing factor type 1 receptor gene, exon 8	Homo saplens corticotropin-releasing factor type 1 receptor gene, exon 8	Homo sapiens IQ motif containing GTP ase activating protein 1 (IQGAP1) mRNA	Homo sapiens protein kinase C, beta 1 (PRKCB1), mRNA	Homo sapiens tracheal epithelium enriched protein (PLUNC) gene, complete cds	Homo sapiens mRNA for alpha2,3-slalyfransferase ST3Gal VI, complete cds	Homo sapiens mRNA for alpha2,3-sialy/transferase ST3Gal VI, complete cds	RC8-BN0276-050700-012-E02 BN0276 Homo sapiens cDNA	RC8-BN0278-050700-012-E02 BN0278 Homo sapiens cDNA	Human L-plastin mRNA, 5 end	[Homo saplens hect domain and RLD 2 (HERC2), mRNA	Homo sapiens RGH1 gene, retrovirus-like element	Homo sapiens sulfotransferase-related protein (SULTX3), mRNA	Homo sapiens protease inhibitor 4 (kalistatin) (PI4) mRNA	Homo sapiens double stranded RNA activated protein kinase (PKR) gene, exon 12	Homo sapiens mRNA for KIAA1399 protein, partial cds	Homo sapiens mRNA for KIAA 1399 protein, partial cds	Homo sapiens chranosome 21 segment HS21 C009	H.sapiens ECE-1 gene (exon 9)
Exon Probe	Top Hit Detabase Source	EST_HUMAN	EST_HUMAN	Ę	EST_HUMAN	EST_HUMAN	NT	EST_HUMAN	NT	EST_HUMAN	EST_HUMAN	NT	NT	NT	TN	NT	TN	LN	NT	ΙN	1N	TN	LN	EST_HUMAN	EST_HUMAN	NT	NT	NT	NT	NT	NT	NT	LN	Ę	Z
eingle	Top Hit Acession No.	2.0E-87 AV654143.1	0E-87 BE294432.1	11433046 NT	0E-87 N48128.1	0E-87 N48128.1	0E-87 X52851.1	0E-87 BE531136.1	7705683 NT	0E-87 AW361977.1	0E-87 AW361977.1	0E-87 Y00052.1	4758827 NT	0E-87 U50949.1		.0E-87 AF073371.1		0E-87 AF039517.1	4506786 NT	11431590 NT	0E-87 AF214562.1			0E-87 BE818183.1	0E-87 BE818183.1	0E-87 M34426.1	5729867 NT	0E-87 D10083.1	7857632 NT	53887				2.	0E-88 X91929.1
	Most Similar (Top) Hit BLAST E Value	2.0E-87	2.0E-87	2.0E-87	2.0E-87	2.0E-87		2.0E-87	1.0E-87	1.0E-87	1.0E-87	1.0E-87	1.0E-87	1.0E-87	1.0E-87	1.0E-87	1.0E-87	1.0E-87	1.0E-87	1.0E-87	1.0E-87	1.0E-87	1.0E-87	1.0E-87	1.0E-87	1.0E-87	1.0E-87	1.0E-87	1.0E-87	9.0E-88	9.0E-88	9.0E-88	9.0E-88	9.0E-88	9.0E-88
	Expression Signal	0.93	1.43	0.76	31.97	33.12	15.53	5.14	1.66	1.21	1.21	6.15	2.65	1.14	2.17	2.17	0.72	0.72	-	1.18	10.74	1.01	1.01	3.71	3.71	0.89	2.84	1.82	2.92	5.21	8.79	2.74	2.74	1.7	3.11
	ORF SEQ ID NO:	32444		32664	32863	33075	33797			26607	26608		28861	30272	31756	31757	32615	32616	32621	32819	33511	34302			35014	35758	36155					26514		28759	
	Exan SEQ (D NO:	19611	19756	19805	19998	20187	20875	22199	15392	14070	14070	16373	16396	17845	18978	18978	19760	19760	19785	19954	20601	21379	21379	22051	22051	22770	23144	23388	25096	13567	13748	13987	13987	16290	16943
	Probe SEQ ID NO:	6877	7225	7277	7478	7876	8334	8700	1224	1478	1478	3772	3796	5283	6374	6374	7229	7229	7235	7430	8028	8840	8840	9551	9551	10275	10611	10878	12198	822	1145	1393	1393	3689	4356

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Product SEQ Dr. SEQ Dr						P R I S	EXVII 7 IONES	Single Exon Probes Expressed in Petal Liver
16943 28386 3.11 9.0E-88 X91929.1 NT 17716 30147 1.11 9.0E-88 AF003528.1 NT 14444 0.86 5.0E-88 AF014488.1 NT 1524 27797 2.31 5.0E-88 AF114488.1 NT 15660 28140 0.77 5.0E-88 AF114488.1 NT 15670 28141 0.77 5.0E-88 AF114488.1 NT 15680 28141 0.77 5.0E-88 AF114488.1 NT 15680 28141 0.77 5.0E-88 AF114488.1 NT 16922 28676 0.76 5.0E-88 AF114488.1 NT 16922 28676 0.76 5.0E-88 AF114488.1 NT 17421 29874 0.79 5.0E-88 AF114488.1 NT 19602 32434 0.76 5.0E-88 AF114488.1 NT 14454 1.33318 1.73 5.0E-88 AF114488.1 NT <td>Probe SEQ ID NO:</td> <td></td> <td></td> <td>Expression Signal</td> <td></td> <td>Top Hit Acession No.</td> <td>Top Hit Database Source</td> <td>Top Hit Descriptor</td>	Probe SEQ ID NO:			Expression Signal		Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
17716 30147 1.11 9.0E-88 AB026898.1 NT 21489 34412 3.16 6.0E-88 AF003528.1 NT 14454 2812 0.96 5.0E-88 AF003528.1 NT 15224 27797 2.31 5.0E-88 AF114488.1 NT 15660 28140 0.91 5.0E-88 AF114488.1 NT 15660 28141 0.91 5.0E-88 AF114488.1 NT 16022 28676 0.76 5.0E-88 AF114488.1 NT 16122 28676 0.76 5.0E-88 AF114488.1 NT 16122 28676 0.76 5.0E-88 AF114488.1 NT 17421 29874 0.79 5.0E-88 AF114488.1 NT 17421 29874 0.79 5.0E-88 AF114488.1 NT 13968 26495 1.37 5.0E-88 BF091229.1 EST_HUMAN 13968 26495 1.33 4.0E-88 BF09	4356			3.11	9.0E-88		LN	H.sapiens ECE-1 gene (exon 9)
21489 34412 3.16 6.0E-88 AF003528.1 NT 14454 27797 2.31 5.0E-88 AF003528.1 NT 15224 27797 2.31 5.0E-88 AF114488.1 NT 15640 28140 0.91 5.0E-88 AF114488.1 NT 15640 28141 0.91 5.0E-88 AF114488.1 NT 15640 28141 0.91 5.0E-88 AF114488.1 NT 16044 28141 0.91 5.0E-88 AF114488.1 NT 16045 28676 0.76 5.0E-88 AF114488.1 NT 16047 2.0874 0.79 5.0E-88 AF114488.1 NT 17421 2.0874 0.79 5.0E-88 AF114488.1 NT 14454 1.77 5.0E-88 AF114488.1 NT 14454 1.37 5.0E-88 AF114488.1 NT 14454 1.37 5.0E-88 BF903229.1 EST HUMAN 198	5146			1.11	9.0E-88		Ę	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
14524 27797 2.31 5.0E-88 7661887 NT 15627 28125 0.77 5.0E-88 AF114488.1 NT 15660 28140 0.91 5.0E-88 AF114488.1 NT 15660 28141 0.91 5.0E-88 AF114488.1 NT 1604 2.8676 0.76 5.0E-88 AF114488.1 NT 16192 2.8676 0.76 5.0E-88 AF114488.1 NT 17421 2.8974 0.79 5.0E-88 AF14488.1 NT 13962 2.8426 1.37 5.0E-88 BF091229.1 EST_HUMAN 13968 2.8426 1.33 4.0E-88 BF0	8951			3.16	B0.9		Ę	Homo sepiens X-linked anhidroitic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
15224 27797 2.31 5.0E-88 AF114488.1 NT 15660 28140 0.91 5.0E-88 AF114488.1 NT 15660 28141 0.91 5.0E-88 AF114488.1 NT 15660 28141 0.91 5.0E-88 AF114488.1 NT 1602 28676 0.76 5.0E-88 AF114488.1 NT 17421 29874 0.79 5.0E-88 AF114488.1 NT 17421 29874 0.79 5.0E-88 AF14488.1 NT 13962 25428 4.0E-88 BF091229.1 EST_HUMAN 13968 26495 1.37 5.0E-88 BF091229.1 EST_HUMAN 13969 26495 1.33 4.0E-88 BF091229.1	1868	Ш		96.0	5.0E	7661887	Z	Homo sapiens KIAA0063 gene product (KIAA0063), mRNA
15647 28125 0.77 5.0E-88 AF114488.1 NT 15660 28140 0.91 5.0E-88 AF114488.1 NT 15660 28141 0.91 5.0E-88 AF114488.1 NT 16044 291 5.0E-88 AF114488.1 NT 16042 28676 0.76 5.0E-88 AF114488.1 NT 16022 32434 2.99 5.0E-88 AF14448.1 NT 20412 33318 1.73 5.0E-88 AF14488.1 NT 20412 33318 1.73 5.0E-88 BF091229.1 EST_HUMAN 21762 34708 0.54 5.0E-88 BF091229.1 EST_HUMAN 13968 26496 1.93 4.0E-88 BF091229.1 EST_HUMAN 13968 26496 1.93 4.0E-88 BF091229.1 EST_HUMAN 13968 26496 1.93 4.0E-88 BF091229.1 EST_HUMAN 23317 36270 2.42 4.0E-88 7	2666	l		2.31	5.0E-88		EST HUMAN	K9719F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA clone K9719 5' similar to ZINC FINGER PROTEIN HZF1
15660 28140 0.91 5.0E-88 AF114488.1 NT 15660 28141 0.91 5.0E-88 AF114488.1 NT 16044 291 5.0E-88 AF114488.1 NT 16192 28676 0.76 5.0E-88 AF114488.1 NT 16192 28676 0.76 5.0E-88 AF114488.1 NT 16902 32434 2.99 5.0E-88 AF14488.1 NT 20412 33318 1.73 5.0E-88 AF14488.1 NT 21762 34708 0.54 5.0E-88 BF091229.1 EST_HUMAN 13968 26496 1.93 4.0E-88 BF091229.1 EST_HUMAN 23814 36874 2.42 4.0E-88 7	3031	H	28125	0.77	5.0E-88		N.	Homo sapiens intersectin short isoform (ITSN) mRNA, complete cds
15660 28141 0.91 5.0E-88 AF114488.1 NT 16024 2.91 5.0E-88 AF114488.1 NT 16192 2.8676 0.76 5.0E-88 AF114488.1 NT 17421 2.8874 0.79 5.0E-88 AF114488.1 NT 20412 33318 1.73 5.0E-88 BH10832.1 EST_HUMAN 21762 34708 0.54 5.0E-88 BH10832.1 EST_HUMAN 13968 26495 1.93 4.0E-88 BF091229.1 EST_HUMAN 13968 26495 1.93 4.0E-88 BF091229.1 EST_HUMAN 13968 26496 1.93 4.0E-88 BF091229.1 EST_HUMAN 13968 26496 1.93 4.0E-88 BF091229.1 EST_HUMAN 13968 2679 2.25 4.0E-88 BF091229.1 EST_HUMAN 23814 36875 2.42 4.0E-88 7661947 NT 23814 36875 2.42 4.0E-88	3044			0.91	5.0E-88		N	Homo sapiens Intersectin short isoform (ITSN) mRNA, complete cds
16044 291 5.0E-88 AF114488.1 NT 16192 28676 0.76 5.0E-88 AF114488.1 NT 17421 28874 0.79 5.0E-88 AF114488.1 NT 19602 32434 2.99 5.0E-88 H10832.1 EST_HUMAN 20412 33318 1.73 5.0E-88 BF80202.1 EST_HUMAN 21762 34708 0.54 5.0E-88 BF80202.2 NT 13968 26495 1.93 4.0E-88 BF091229.1 EST_HUMAN 13968 26496 1.93 4.0E-88 BF091229.1 EST_HUMAN 13968 26496 1.93 4.0E-88 BF091229.1 EST_HUMAN 13968 26496 1.93 4.0E-88 BF091229.1 EST_HUMAN 23312 36520 1.93 4.0E-88 BF091229.1 EST_HUMAN 23814 36875 2.42 4.0E-88 7661947 NT 23814 36875 2.42 4.0E-88	3044			0.91	5.0E-88		NT.	Homo sapiens intersectin short isoform (ITSN) mRNA, complete cds
16192 28676 0.76 5.0E-88 AF114488.1 NT 17421 29874 0.79 5.0E-88 HF14488.1 NT 19602 32434 2.99 5.0E-88 H10832.1 EST_HUMAN 20412 33318 1.73 5.0E-88 H10822.1 EST_HUMAN 21762 34706 0.54 5.0E-88 BF690206.1 EST_HUMAN 13968 26495 1.93 4.0E-88 BF091229.1 EST_HUMAN 13968 26496 1.93 4.0E-88 BF091229.1 EST_HUMAN 13960 22679 2.25 4.0E-88 F661947 NT 23312 36320 1.93 4.0E-88 7661947 NT 23814 36876 2.42 4.0E-88 7661947 NT 23814 36876 2.42 4.0E-88 7661947 NT 13380 25877 0.96 3.0E-88 4508020 NT 14436 2.807 3.0E-88 4501912	3436			2.91	5.0E-88		EST HUMAN	wd68h08.x1 NCI_CGAP_Lu24 Home sapiens cDNA clone IMAGE:2336799 3' similar to contains Alurepetitive element:
17421 29874 0.79 5.0E-88 AF114488.1 NT 19602 32434 2.99 5.0E-88 H10532.1 EST_HUMAN 20412 33318 1.73 5.0E-88 H10532.1 EST_HUMAN 21762 34708 0.54 5.0E-88 BF680206.1 EST_HUMAN 13968 26495 1.93 4.0E-88 BF091229.1 EST_HUMAN 13968 26496 1.93 4.0E-88 BF091229.1 EST_HUMAN 13960 2.25 4.0E-88 BF091229.1 EST_HUMAN 23312 36320 1.93 4.0E-88 F661947 NT 23814 36874 2.42 4.0E-88 7661947 NT 23814 36875 2.42 4.0E-88 7661947 NT 13380 25877 0.96 3.0E-88 11545800 NT 14336 2.87 0.64 3.0E-88 4501912 NT 15590 28073 0.64 3.0E-88 4501912 <td>3588</td> <td>L</td> <td></td> <td>0.76</td> <td>5.0E-88</td> <td></td> <td>NT</td> <td>Homo saplens intersectin short isoform (ITSN) mRNA, complete cds</td>	3588	L		0.76	5.0E-88		NT	Homo saplens intersectin short isoform (ITSN) mRNA, complete cds
19602 32434 2.99 5.0E-88 H10832.1 EST_HUMAN 20412 33318 1.73 5.0E-88 BF680206.1 EST_HUMAN 21762 34708 0.54 5.0E-88 BF680206.1 EST_HUMAN 14454 1.37 5.0E-88 BF680206.1 EST_HUMAN 13968 26495 1.93 4.0E-88 BF091229.1 EST_HUMAN 13960 2.25 4.0E-88 BF091229.1 EST_HUMAN 23312 36320 1.93 4.0E-88 BF091229.1 EST_HUMAN 23814 36875 2.42 4.0E-88 7661947 NT 23814 36875 2.42 4.0E-88 7661947 NT 13380 25877 0.96 3.0E-88 7661947 NT 14436 2.59 3.0E-88 4508020 NT 16911 28052 0.64 3.0E-88 4501912 NT 16911 28053 0.64 3.0E-88 11429507 NT	4843		29874	0.79	5.0E-88		Z	Homo sapiens intersectin short isoform (ITSN) mRNA, complete cds
20412 33318 1.73 5.0E-88 AL163284.2 NT 21762 34708 0.54 5.0E-88 BF680206.1 EST_HUMAN 14454 1.37 5.0E-88 BF680206.1 EST_HUMAN 13968 26495 1.93 4.0E-88 BF091229.1 EST_HUMAN 13960 2269 1.93 4.0E-88 BF091229.1 EST_HUMAN 23312 36320 1.93 4.0E-88 BF091229.1 EST_HUMAN 23814 36875 2.42 4.0E-88 7661947 NT 23814 36875 2.42 4.0E-88 7661947 NT 13380 25877 0.96 3.0E-88 7661947 NT 14436 2.63 3.0E-88 4508020 NT 14550 28073 4.76 3.0E-88 4501912 NT 16911 28352 0.64 3.0E-88 4501912 NT 18139 3.0546 2.95 3.0E-88 11429597 NT <	8989			2.99	5.0E-88			ym08b10.r1 Soares infant brain 1NIB Homo sapiens cDNA clone IMAGE:47129 5'
21762 34708 0.54 5.0E-88 BF680206.1 EST_HUMAN 14454 1.37 5.0E-88 P661887 NT 13968 26495 1.93 4.0E-88 BF091229.1 EST_HUMAN 13968 26496 1.93 4.0E-88 BF091229.1 EST_HUMAN 19820 3.2679 2.25 4.0E-88 BF091229.1 EST_HUMAN 23914 36320 1.93 4.0E-88 F661947 NT 23814 36875 2.42 4.0E-88 7661947 NT 13380 25877 0.96 3.0E-88 7661947 NT 1436 2.42 4.0E-88 7661947 NT 1436 3.0E-88 11545800 NT 14436 2.59 3.0E-88 4501012 NT 16911 28352 0.64 3.0E-88 4501012 NT 16911 28353 0.64 3.0E-88 4501012 NT 17159 4.33 3.0E-88 <td>7870</td> <td></td> <td></td> <td>1.73</td> <td>5.0E-88</td> <td></td> <td>TN</td> <td>Homo sapiens chromosome 21 segment HS21C084</td>	7870			1.73	5.0E-88		TN	Homo sapiens chromosome 21 segment HS21C084
14454 1.37 5.0E-88 7661887 NT 13968 26495 1.93 4.0E-88 BF091229.1 EST_HUMAN 13968 26496 1.93 4.0E-88 BF091229.1 EST_HUMAN 19820 32679 2.25 4.0E-88 BF091229.1 EST_HUMAN 23312 36320 1.93 4.0E-88 F60193 NT 23814 36874 2.42 4.0E-88 7661947 NT 23814 36875 2.42 4.0E-88 7661947 NT 13380 25877 0.96 3.0E-88 11545800 NT 14436 2.59 3.0E-88 4508020 NT 16911 28352 0.64 3.0E-88 4501912 NT 16911 28353 0.64 3.0E-88 4501912 NT 18138 3.0546 2.95 3.0E-88 11429300 NT 18504 3.0112 4.24 3.0E-88 14501912 NT	9236		34708	0.54	5.0E-88	BF680206.1	EST_HUMAN	602154958F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4295775 5'
13968 26495 1.93 4.0E-88 BF091229.1 EST HUMAN 13968 28496 1.93 4.0E-88 BF091229.1 EST HUMAN 19820 32679 2.25 4.0E-88 11416585 INT EST HUMAN 23312 36320 1.93 4.0E-88 7661947 INT EST HUMAN 23814 36874 2.42 4.0E-88 7661947 INT INT 13360 25877 0.96 3.0E-88 7661947 INT INT 14436 2.59 3.0E-88 7661947 INT INT 15590 28073 4.76 3.0E-88 7661947 INT 16911 28052 0.64 3.0E-88 4509020 INT 16911 28052 0.64 3.0E-88 4501912 INT 16911 28055 0.64 3.0E-88 4501912 INT 17159 4.33 3.0E-88 11428900 INT 18306 3.111 4.24 3.0E-88 11428900 INT 18504 3.0E-88 3.0E-88	11942			1.37	5.0E-88	7661887	Ā	Homo saplens KIAA0063 gene product (KIAA0063), mRNA
13968 26496 1.93 4.0E-88 BF091229.1 EST_HUMAN 19820 32679 2.25 4.0E-88 11416585 INT EST_HUMAN 23312 36320 1.93 4.0E-88 4502694 INT INT 23814 36874 2.42 4.0E-88 7661947 INT INT 13380 25877 0.96 3.0E-88 7661947 INT INT 1436 2.5877 0.96 3.0E-88 7661947 INT INT 15590 28073 4.76 3.0E-88 4508020 INT INT 16911 28052 0.64 3.0E-88 4501912 INT INT 16911 28053 0.64 3.0E-88 4501912 INT INT 16911 28053 0.64 3.0E-88 4501912 INT INT 16911 28053 0.64 3.0E-88 1142890 INT INT 1839 31112 4.24 3.0E-88 11428967 INT INT 18504 310E-88 11420897 INT	1374			1.93	4.0E-88	BF091229.1	EST_HUMAN	PM1-TN0028-050900-004-f10 TN0028 Homo sapiens cDNA
19820 32679 2.25 4.0E-88 11416585 INT 23312 36320 1.93 4.0E-88 4502694 INT 23814 36874 2.42 4.0E-88 7661947 INT 23814 36875 2.42 4.0E-88 7661947 INT 13360 25877 0.96 3.0E-88 7661947 INT 14436 2.59 3.0E-88 7661947 INT 15590 2.59 3.0E-88 11545800 INT 16911 28053 0.64 3.0E-88 4509020 INT 16911 28055 0.64 3.0E-88 4501912 INT 16911 28055 0.64 3.0E-88 4501912 INT 16911 28055 0.64 3.0E-88 4501912 INT 18136 3.0546 2.95 3.0E-88 11428967 INT 18204 3.112 4.24 3.0E-88 1986888 INT 18504 3.1230 3.9E-88 11420697 INT	1374			1.93	4.0E-88	BF091229.1	EST_HUMAN	PM1-TN0028-050900-004-f10 TN0028 Homo sapiens cDNA
23312 36320 1.93 4.0E-88 4502694 NT 23814 36874 2.42 4.0E-88 7661947 NT 23814 36875 2.42 4.0E-88 7661947 NT 13380 25877 0.96 3.0E-88 7661947 NT 14436 2.59 3.0E-88 11545800 NT 15590 28073 4.76 3.0E-88 4508020 NT 16911 28352 0.64 3.0E-88 4501912 NT 16911 28353 0.64 3.0E-88 4501912 NT 17159 4.33 3.0E-88 11428300 NT 18136 3.112 4.24 3.0E-88 11428667 NT 18398 3.111 4.24 3.0E-88 11428667 NT 18504 3.1230 3.0E-88 11428697 NT	7292			2.25	4.0E-88		NT	Homo sapiens transforming growth factor, beta-Induced, 68kD (TGFBI), mRNA
23814 36874 2.42 4.0E-88 7661947 NT 23814 36875 2.42 4.0E-88 7661947 NT 13380 25877 0.96 3.0E-89 7661947 NT 14436 259 3.0E-89 11545800 NT 15590 28073 4.76 3.0E-89 4508020 NT 16911 28352 0.64 3.0E-89 4501912 NT 16911 28353 0.64 3.0E-89 4501912 NT 17159 4.33 3.0E-89 11428300 NT 18136 3.0546 2.95 3.0E-89 11428967 NT 18398 31112 4.24 3.0E-89 11428967 NT 18504 31230 3.86 3.0E-89 11428967 NT	10789			1.93	4.0E-88		NT	Homo sapiens cell division cycle 10 (homologous to CDC10 of S. cerevisiae) (CDC10) mRNA
23814 36875 2.42 4.0E-88 7661947 NT 13380 25877 0.96 3.0E-88 11545800 NT 14436 259 3.0E-88 4508020 NT 15590 28073 4.76 3.0E-88 4508020 NT 16911 28352 0.64 3.0E-88 4501912 NT 16911 28353 0.64 3.0E-88 4501912 NT 17159 4.33 3.0E-89 11429300 NT 18136 3.0546 2.95 3.0E-89 11429567 NT 18398 31112 4.24 3.0E-89 1968688 NT 18504 3.1230 3.86 3.0E-89 11429667 NT	11362			2.42	4.0E-88		NT	Homo sapiens KIAA0152 gene product (KIAA0152), mRNA
13380 25877 0.96 3.0E-88 11545800 INT 14436 2.59 3.0E-88 4508020 INT 15590 28073 4.76 3.0E-88 M69551.1 EST_HUMAN 16911 28352 0.64 3.0E-88 4501912 INT 16911 28353 0.64 3.0E-88 4501912 INT 17159 4.33 3.0E-89 11429300 INT 18136 3.0546 2.95 3.0E-89 11429567 INT 18398 31112 4.24 3.0E-89 11420567 INT 18504 31230 3.86 3.0E-89 I1420597 INT	11362		36875	2.42	4.0E-88		NT	Homo sapiens KIAA0152 gene product (KIAA0152), mRNA
14356 2.59 3.0E-88 4508020 IT 15590 28073 4.76 3.0E-88 N66951.1 EST_HUMAN 16911 28352 0.64 3.0E-88 4501912 INT 17159 4.33 3.0E-88 4501912 INT 18136 3.0546 2.95 3.0E-89 11429300 INT 18398 3.112 4.24 3.0E-89 11429567 INT 18504 3.1230 3.86 3.0E-89 11420597 INT	761			96.0	3.0E-88		NT	Homo saplens hypothetical protein FLJ21634 (FLJ21634), mRNA
15590 28073 4.76 3.0E-88 N66951.1 EST_HUMAN 16911 28352 0.64 3.0E-88 4501912 INT 16911 28353 0.64 3.0E-88 4501912 INT 17159 4.33 3.0E-89 11429300 INT 18136 3.0546 2.95 3.0E-89 11429567 INT 18399 31112 4.24 3.0E-89 9966888 INT 18504 31230 3.86 3.0E-8B 11420597 INT	1848				3.0E-88		NT	Homo sapiens zinc finger protein 259 (ZNF259) mRNA
16911 28952 0.64 3.0E-88 4501912 INT 16911 28953 0.64 3.0E-88 4501912 INT 17159 4.33 3.0E-89 11429300 INT 18136 30546 2.95 3.0E-89 11429567 INT 18396 31112 4.24 3.0E-89 9966888 INT 18504 31230 3.86 3.0E-89 11420697 INT	2974		28073		3.0E-88	N66951.1	<u> </u> -	za48112.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:295823 3'
16911 28353 0.64 3.0E-88 4501912 INT 17159 4.33 3.0E-88 11429300 INT 18136 3.0546 2.95 3.0E-88 11429567 INT 18396 31112 4.24 3.0E-88 9966888 INT 18504 31230 3.86 3.0E-88 11420697 INT	4325		28352		3.0E-88		NT	Homo sapiens a disintegrin and metalloproteinase domain 23 (ADAM23) mRNA
17159 4.33 3.0E-88 11429300 NT 18136 3.0546 2.95 3.0E-88 11429567 NT 18396 31112 4.24 3.0E-88 9966888 NT 18504 31230 3.86 3.0E-88 11420697 NT	4325	- 1		0.64	3.0E-88		NT	Homo sapiens a disintegrin and metalloproteinase domain 23 (ADAM23) mRNA
18136 30546 2.95 3.0E-88 11429567 NT 18396 31112 4.24 3.0E-88 9966888 NT 18504 31230 3.86 3.0E-88 11420697 NT	4576			4.33	3.0E-88		IN	Homo sapiens hypothetical protein FLJ20220 (FLJ20220), mRNA
18504 3112 4.24 3.0E-88 9966888 NT 18504 31230 3.86 3.0E-88 11420697 NT	5502			2.95	3.0E-88		NT	Homo sapiens valosin-containing protein (VCP), mRNA
18504 31230 3.86 3.0E-88 11420697 NT	5773	i		4.24	3.0E-88		LN	Homo sapiens polycythemia rubra vera 1; cell surface receptor (PRV1), mRNA
	5882		31230	3.86	3.0E-88		۲	Homo sapiens v-ral simian leukernia viral oncogene homolog A (ras related) (RALA), mRNA

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Single EXVITTUDES Expressed III Fetal EIVEI	Top Hit Descriptor	Homo sapiens interleukin 13 (IL 13), mRNA	Homo sapiens activator of S phase kinase (ASK), mRNA	Homo sapiens activator of S phase kinase (ASK), mRNA	Homo sapiens putative anion transporter 1 mRNA, complete cds	Homo sapiens retinoblastome-binding protein 2 (RBBP2), mRNA	Homo sapiens growth differentiation factor 5 (cartilage-derived morphogenetic protein-1) (GDFS), mRNA	Homo sapiens molybdenum coffector biosynthesis protein A and molybdenum coffector biosynthesis protein C mRNA, complete cds	Homo sapiens v-ets awan erythroblastosis wrus E28 oncogene related (ERG), mRNA	Homo sapiens mRNA for RALDH2-T, complete cds	Homo sapiens mRNA for RALDH2-T, complete cds	Homo sapiens acyl-Coenzyme A dehydrogenase family, member 8 (ACAD8), mRNA	Homo sapiens transcobalamin II; mecrocytic anemia (TCN2), mRNA	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA	Homo sapiens protease, serine, 7 (enterokinase) (PRSS7), mRNA	Homo sapiens Calsenilin, presentlin-binding protein, EF hand transcription factor (CSEN), mRNA	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds	Homo sapiens dynein, axonemal, light polypeptide 4 (DNAL4), mRNA	UI-H-BI1-aea-d-04-0-UI.s1 NCI_CGAP_Sub3 Hamo sapiens cDNA clone IMAGE:2718750 3'	UI-H-BI1-888-d-04-0-UI.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone (MAGE:2718750 3)	Homo sapiens KIAA0417 mRNA, complete cds	Homo sapiens KIAA0417 mRNA, complete cds	wq70a12x1 NCI_CGAP_GC8 Homo sapiens cDNA clone IMAGE:2476608 3'	aa64a11.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:824732 3' similar to WP:B0272.2 CE00851	2p87c02.r1 Stratagene HeLa cell s3 837216 Homo sapiens cDNA clone IMAGE:827170 5' similar to SW:POL1_HUMAN P10266 RETROVIRUS-RELATED POL POLYPROTEIN ;	DKFZp434N0323_r1 434 (synonym: https://doi.org/10.00000000000000000000000000000000000	os91g03.s1 NCI_CGAP_GC3 Homo sapiens cDNA clone IMAGE:1612756 3' similar to gb:M16342 HETEROGENEOUS NIJCI FAR RIBONIJCI EOPROTEINS C1/C2 (HI IMAN):	Homo sapiens chromosome 21 segment HS21C046	Homo sapiens transgelin 2 (TAGLN2), mRNA
EXOLL FLODES	Top Hit Database Source	NT	LN.	7	LN	FZ	Į,	k	N	Į.	E	FZ	TN	FZ	NT	N	LΝ	NT	NT	EST_HUMAN	EST_HUMAN	NT	NT	EST_HUMAN	EST HUMAN	EST_HUMAN	EST HUMAN	EST HIMAN	L	NT.
aifiiic	Top Hit Acession No.	11417370 NT	11419210 NT	11419210 NT		3.0E-88 11436400 NT	11421726 NT	E-88 AF034374.1	11528282 NT	3.0E-88 AB015228.1	3.0E-88 AB015228.1	11439065 NT	11417974 NT	11430460 NT	3.0E-88 11526140 NT	7305198 NT	AF246219.1	AF246219.1	5031666 NT	E-88 AW 139565.1	E-88 AW 139565.1	E-88 AB007877.1	1.0E-88 AB007877.1	E-88 AI969034.1	1.0E-88 AA488981.1	1.0E-88 AA190368.1	1.0E-88 AL043314.2	1 0F-88 AA991479 1	DE-88 AI 183248.2	11421238 NT
	Most Similar (Top) Hit BLAST E Value	3.0E-88	3.0E-88	3.0E-88	3.0E-88	3.0E-88	3.0E-88	3.0E-88	3.0E-88	3.0E-88	3.0E-88	3.0E-88	3.0E-88	3.0E-88	3.0E-88	2.0E-88	2.0E-88	2.0E-88	2.0E-88	1.0E-88	1.0E-88	1.0E-88	1.0E-88	1.0E-88	1.0E-88	1.05-88	1.0E-88	1.05.88	1 OF -88	9.0E-89
	Expression Signal	1.3	66'0	66.0	15.2	5.75	9.25	1.57	2.09	0.67	0.67	0.89	5.38	1.26	1,41	1.87	1.57	4.58	2.07	5.11	5.11	22.7	22.7	1.3	4.05	0.9	3.09	41.8	5.36	3.58
	ORF SEQ ID NO:		31938				33310	33589			35321	35343		30628			26792		29547	31430	31431	32153		32558	32622		34956	36036		38386
	Exon SEQ ID NO:	18916	24764	24784	l		20403	20678	20294	22339	22339	22364	24283	24954	24738	13679	14258	14378	17100	18687	18687	19346	19346	19708	19766	21743	21999	23047	24400	23351
	Probe SEQ ID NO:	6309	8545	8545	7126	7546	7861	8137	9355	8	248	9867	11928	11944	12669	1074	1665	1786	4516	0209	0209	6753	6753	7178	7236	9168	9489	11210	12160	10830
		_	_		_	_			_	_		_		_	_	_		_		_	_		_	_			_		_	_

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יישים באכיון באסט באלים האכים באכיון באסט באלים שניים	SEQ Expression (Top) Hit Acession No. Signal BLASTE No. Source Source	27884 1.05 8.0E-89 BE311557.1 EST_HUMAN 601142409F1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3506188 5'	1.07 8.0E-89 11421514 NT	1.26 7.0E-89 7657213 NT	1.26 7.0E-89 7657213 NT	2.51 7.0E-89 4557390 NT	6.15 7.0E-89 AL045748.1 EST_HUMAN	1.26 7.0E-89 X99832.1 NT	30721 1.26 7.0E-89 X99832.1 NT H.sapiens CLN3 gene, complete CDS	1.06 7.0E	1.06	1.86	0.51 7.0E-89 11417118 NT		0.83	1.3 7.0E-89 X62048.1 NT	1.3 7.0E-89 X62048.1 NT H.sapiens Wee1 hu gene		0.97 7.0E	7.0E-89 J05235.1		1.24	1.37 6.0E-89	1.37 6.0E	0.91 6.0E-89 7661817 NT			0.62 6.0E-89 6806918 NT	0.62 6.0E-89 6806918 NT	200770300000	2.68 5.0E-89 BE244323.1 EST_HUMAN	2.68 5.0E-89 BE244323.1 EST_HUMAN	0.91 4.0E-89 BE762749.1
	Expression Signal	1.05	1.07					1.26	1.26				0.51	0.51	0.83	1.3	1.3	0.97	0.97	1.86	1.41	1.24	1.37	1.37	0.91	3	3	0.62	0.62	0000	2.68	2.68	0.91
	ORF SEQ DID NO:	15317 27884	19510 32331	13092 25585		17586 30029	17637 30080	18252 30720	18252 30721			20031 32896		20362 33270			917 35918		934 35943	905									17926 30341		17/98 30216		102 32977
-	De Exon ID SEQ ID NO:	2763 153	7012 195	458 130		5012 175		5623 182			6483 19084			7820 203				10440 229						Ц		4743 17324		5366 17926	5366 179		5234 177		7587 20102
	Probe SEQ ID NO:	2	, F			ιζ	ιζ	জ	ம்	ø	ý	7	7,		ထံ	é	ę	9	Ŷ	12	¥	7	Ñ	5	က်	4	4	છ	ઇ	L ù	ń	2,5	ř

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Probe SEQ ID	SEO ID NO:	ORF SEQ ID NO:	Expression	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Databese Source	Top Hit Descriptor
11020	23534	36570			4.0E-89 AI798672.1	EST_HUMAN	we91c03.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2348452.3'
2901	15518		2.21		AW976181.1	EST_HUMAN	EST388290 MAGE resequences, MAGN Homo sapiens cDNA
7194	19725				3.0E-89 AI217359.1	EST_HUMAN	qh17b06,x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1844915 31
10878	23240	36221	2.24		3 0F-89 N57357 1	EST HUMAN	yw86e11.r1 Soares_placenta_8to9weeks_2NbHP8to9W Homo sapiens cDNA clone IMAGE:259148 5' similar to SW:PI4K_HUMAN P42356 PHOSPHATIDYLINOSITOL 4-KINASE ALPHA;
12270	24840			L	3.0E-89 AV708431.1	EST HUMAN	AV708431 ADC Homo sapiens cDNA clone ADCARE02 5'
12364	24537		1.32		3.0E-89 AV705749.1	EST_HUMAN	AV705749 ADB Homo sepiens cDNA clone ADBBGA01 5'
132	13086				TN 056670 NT	N	Homo sapiens PXR2b protein (PXR2b), mRNA
132	13088			L	7706670 NT	LN	Homo sapiens PXR2b protein (PXR2b), mRNA
433	13066				T706670 NT	LN	Homo sapiens PXR2b protein (PXR2b), mRNA
£33	13066				TN 6670 NT	LN	Homo sapiens PXR2b protein (PXR2b), mRNA
1826	14415	26962	1.71		2.0E-89 AJ238277.1	ΝΤ	Homo sapiens mRNA for cencer-testis-associated protein (CTp11 gene)
2905	15522	27992	1.84		AI222095.1	EST_HUMAN	qg96c08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1843022 3' similar to gb:J04131 GAMMA-GLUTAMYLTRANSPEPTIDASE 1 PRECURSOR (HUMAN):contains Alu repetitive element;
3608	16212	L			2.0E-89 AA759149.1	EST_HUMAN	ah70e03.s1 Soares_tests_NHT Homo sapiens cDNA clone 1320988 3'
3608	16212				2.0E-89 AA759149.1	EST_HUMAN	ah70e03.s1 Soares_testis_NHT Homo sapiens cDNA clone 1320988 3'
4226	16814	L	1.18		AF089897.1	LN	Homo sapiens topoisomerase-related function protein (TRF4-2) mRNA, partial cds
4233	16821	29271			2.0E-89 X58742.1	۲N	H.sapiens HCK gene for tyrosine kinase (PTK), exons 10-11
4233	16821		5.23		X58742.1	ΝΤ	H.sapiens HCK gene for tyrosine kinase (PTK), exons 10-11
444	17027			L	2.0E-89 AL163203.2	LN	Homo sapiens chromosome 21 segment HS21C003
4596	17179	2962			2.0E-89 AJ007378.1	LN	Homo sapiens GGT gene, exon 5
5546	18178				2.0E-89 BE541744.1	EST_HUMAN	601065998F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3452423 5'
5672	18299	30780	3.13		2.0E-89 AB007546.1	LN	Homo sapiens gene for LECT2, complete cds
5960	18582	L			2.0E-89 U03985.1	LN	Human N-ethylmaleimide-sensitive factor mRNA, partial cds
6358	18962				AL163285.2	۲N	Homo sapiens chromosome 21 segment HS21C085
7864	20176		7		2.0E-89 U81004.1	LN	Human GT24 (GT24) mRNA, partial cds
7875	20417	33325	3.22		11428801 NT	Z	Homo sapiens solute carrier family 24 (sodium/potassium/calcium exchanger), member 2 (SLC24A2), mRNA
8356	20896				2.0E-89 AJ245503.1	FZ	Homo sapiens partial mRNA for PEX5 related protein
9177	21754	34701	69.0		2.0E-89 AB037754.1	LN⊤	Homo sapiens mRNA for KIAA1333 protein, partial cds
9724	22222	\rfloor_{-}			39 AF170814.1	LΝ	Homo sapiens CaBP5 (CABP5) gene, exon 5
9724	22222		3 0.65	2.0E⊣	39 AF170814.1	NT L	Hamo sapiens CaBP5 (CABP5) gene, exon 5

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בילו ספסס וון ספס בילו	Top Hit Descriptor	Homo sapiens integrin, alpha 3 (antigen CD49C, alpha 3 subunit of VLA-3 receptor) (ITGA3) mRNA	Homo sapiens cell adhesion molecule with homotopov to I 1CAM (circse homotoma at 1 1 1 1 1 1 1 2 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1 2 1	Human MAGE-7 antigen (MAGE7) pseudogene, complete cds	hr81409.x1 NCI_CGAP_Kid11 Horno sapiers cDNA clone IMAGE:3134897 3' similar to TR:O54778 O54778 SOLUTE CARRIER FAMILY 22 1,IKE 2 PROTEIN :	hr81d09.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3134897 3' similar to TR:O54778 O54778 SOLUTE CARRIER FAMILY 22 -LIKE 2 PROTEIN	Homo sapiens chromosome 21 segment HS210046	Homo sapiens chromosome 21 segment HS210046	Homo saplens chromosome 21 segment HS21C046	Homo sepiens chromosome 21 segment HS21C046	7e36f08.x1 NCI CGAP Lu24 Homo saplens cDNA clone IMAGE:3284583.3'	7e36f08.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3284583 3	RC1-HT0598-120400-022-b08 HT0598 Homo sapiens cDNA	999608.x1 Soares_NFL_T_GBC_S1 Home septens cDNA clone IMAGE:1843022 3' similar to gb:J04131 GAMMA-GLUTAMYTTRANSPEPTINASE 1 PRECIPSOR (HIMAN) contributed to the contributed of the contr	999608x1 Soares_NFL_T_GBC_S1 Homo sepiens cDNA clone IMAGE:1843022 3' similar to gb:J04131	GAMMA-GLUTAMYLTRANSPEPTIDASE 1 PRECURSOR (HUMAN);contains Alu repetitive element;	Flomo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7.49, and partial cds, alternatively spliced	ai63d08.s1 Soares_testis_NHT Homo sapiens cDNA clone 1375503 3'	601655837R1 NIH_MCC_66 Hamo sapiens cDNA clane IMAGE:3855824 3'	601855837R1 NIH_MGC_66 Hamo sapiens cDNA clane INAGE:3855824 3'	y86e04.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:212190 3' similar to SP:C1TC, HUMAN P11596 C-1-TETRAHYDROFOLATE SYNTHASE, CYTOPI ASMIC.	v88e04.s1 Soures fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:212190 3' similar to SP:C1TC HUMAN P11896 C-1-TETRAHYDROFOLATE SYNTHASE CYTOPI ASMIC:	602071208F1 NCI_CGAP_Bm64 Homo sapiens cDNA clone IMAGE:4214257 5:	H. sapiens ECE-1 gene (exon 6)	H.sapiens ECE-1 gene (exon 6)
	Top Hit Database Source				hr8 EST HUMAN SO	hr8 EST HUMAN SO	Г	NT	N	NT	EST HUMAN 763	EST_HUMAN 763	EST_HUMAN RC	gg EST HUMAN GA		EST HUMAN GA	ilgs TA	EST_HUMAN al63		1	EST HUMAN SP.	EST HUMAN SP:	EST_HUMAN 602	Г	
28	Top Hit Acession No.	11434411 NT	11433673 NT	2.0E-89 U10692.1	-89 BF196052.1	-89 BF196052.1	9.0E-90 AL163246.2			8.0E-90 AL 163246.2		8.0E-90 BE670561.1	-90 BE177830.1	90 Al222095.1		-90 AI222095.1	-90 AF223391,1		Г	7.0E-90 BE962525.2	-90 H68849.1	7.0E-90 H68849.1	7.0E-90 BF526089.1		
	Most Similar (Top) Hit BLAST E Value	2.0E-89	2.0E-89	2.0E-89	1.0E-89	1.05-89	9.0E-90	9.0E-90	8.0E-90	8.0E-90	8.0E-90	8.0E-90	8.0E-90	8.0E-90	L	8.05-90	7.0E-90	7.0E-90 /	7.0E-90	7.0E-90	7.0E-90	7.0E-90	7.0E-90 I	6.0E-90	6.0E-90 X91926.1
	Expression Signal	2.58	5.1	2.25	6.8	6.8	1.59	1.59	1.9	2.3	4.58	4.58	0.68	19.1	ě	ΓΘ.Γ	4.48	1.73	1.47	1.47	2.15	2.15	0.69	1.18	1.18
	ORF SEQ ID NO:	36838	36929	37081	36965	36966	33626	33627	26214	26214	26497	26498	33955	36127	00,400	30120			34357	34358	35533	35534	35840	28189	28190
	Exch SEQ ID NO:	23782	23894	24011	23899	23899				13706		15439	21034	23114	25.52	1				21434	22537	22537			15719
	Probe SEQ ID NO:	11252	11444	11564	11449	11449	8169	8169	1101	1102	1375	1375	8495	10579	0,0570	S/COI	869	8363	9888	9886	10042	10042	10352	3104	3104

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	_	_	_	τ-		-	_				_	•	_	_	-	_		_	_	_		-	_			_		
Top Hit Descriptor	Home sapiens hypothetical protein FLJ10388 (FLJ10388), mRNA	Homo saplens hypothetical protein FLJ10388 (FLJ10388), mRNA	Homo sapiens HsGCN1 mRNA, partial cds	Homo sapiens HsGCN1 mRNA, partial cds	Homo sapiens inositol 1,4,5-triphosphate receptor, type 3 (ITPR3) mRNA	Homo saplens Inositol 1,4,5-triphosphate receptor, type 3 (ITPR3) mRNA	Homo saplens TCL6 gene, exon 1-10b	Human gamma-amhobutyric acid transaminase mRNA, partial cds	qg96c08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1843022 3' similar to gb.J04131 GAMMA-GLUTAMYLTRANSPEPTIDASE 1 PRECURSOR (HUMAN);contains Alu repetitive element:	qg98c08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1843022 3' similer to gb.J04131 GAMMA-GLUTAMYLTRANSPEPTIDASE 1 PRECURSOR (HUMAN);contains Alu repetitive element;	Homo saplens intersectin long Isoform (ITSN) mRNA, complete cds	Homo sapiens pregnancy-zone protein (PZP) mRNA	Homo sapiens chromosome 21 segment HS210001	H.saplens mRNA encoding phospholipase c	Homo sapiens ELKS mRNA, complete cds	H.sapiens mRNA encoding phospholipase c	Homo saplens angiopoletin 4 (ANG4) mRNA, partial cds	Homo sapiens angiopoletin 4 (ANG4) mRNA, partial cds	Homo sapiens adenylate cyclase 9 (ADCY9) mRNA	Homo sapiens hypothetical protein FLJ13222 (FLJ13222), mRNA	Homo sapiens similar to ectonucleotide pyrophosphatase/phosphodiesterase 3 (H. sapiens) (LOC83214). mRNA	Homo sepiens calcium-binding transporter mRNA, partial cds	Homo sepiens KIAA0433 protein (KIAA0433), mRNA	Homo sapiens KIAA0433 protein (KIAA0433), mRNA	Homo sapiens ATPase, aminophospholipid transporter-like, Class I, type 8A, member 2 (ATP8A2), mRNA	Horno sapiens KIAA0317 gene product (KIAA0317), mRNA	Homo sapiens KIAA0317 gene product (KIAA0317), mRNA	Human mRNA for NADP dependent leukotriene b4 12-hydroxydehydrogenase, partial cds
Top Hit Database Source	LN.	NT	LN	TN	LN T	LN	LN	LN FN	EST_HUMAN	EST_HUMAN	Z	Z	LN	NT	LN TN	IN	LN	LN	TN	NT	ΙN	Ę	LN	LN	TN	TN	TN	۲N
Top Hit Acession No.	8922398 NT	8922398 NT	17700.1	U777700.1	4504794 NT	4504794 NT	AB035344.1	5.0E-90 U80226.1	5.0E-90 AI222095.1	0E-90 AI222095.1	0E-90 AF114487.1	4506354 NT	0E-90 AL163201.2	.0E-90 Z18411.1	AB015617.1	216411.1	5.0E-90 AF113708.1	AF113708.1	5.0E-90 4557258 NT	11345483 NT	11419429 NT	AF123303.1	11417118 NT	5.0E-90 11417118 NT	11433721 NT	7662051 NT	7682051 NT	0E-90 D49387.1
Most Similar (Top) Hit BLAST E Value	6.0E-90 &	6.0E-90	6.0E-90	6.0E-90 U77700.1	6.0E-90	6.0E-90	5.0E-90	5.0E-90	5.0E-90	5.0E-30	5.0E-90	5.0E-90	5.0E-90	5.0E-90	5.0E-90	5.0E-90	5.0E-90	5.0E-90	5.0E-90	5.0E-90	5.0E-90	5.0E-90	5.0E-90	5.0E-90	5.0E-90	5.0E-90	5.0E-90	5.0E-90
Expression Signal	8.68	8.68	3.08	3.08	3.18	3.18	24.29	2.39	2.57	2.57	4.06	10.01	0.64	2.63	1.13	2.21	2.58	2.56	13.89	4.57	1.24	0.71	0.53	0.53	8.78	0.51	0.51	3.38
S Ω			31508	L	33730			26347	27002	27003	27720	29674	29696	31118	31220			32652	32957		35061			35798	35832	35887		
Exon SEQ ID NO:	16897	16897	18751	18751	20810	ĺ	12829	13833	1446	14446	15153	17220	17242	18402	18493			19795	20081		22098	22678	22805	22805	22837		l I	1
Probe SEQ ID NO:	4311	4311	6137	6137	8269	8269	166	1234	1858	1858	2591	4638	4660	2222	5871	5939	7267	7267	7564	8234	8656	10181	10311	10311	10343	10399	10399	10795

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Single Exoli Flores Explessed III Feta Elvei	Top Hit Acession Top Hit Descriptor No. Source	AB011399.1 NT Homo saplens gene for AF-6, complete cds	EST HUMAN	L _N	ΙN	05316 NT	N	N N	Z	N	M95967.1 NT Human prohomone converting enzyme (NEC2) gene, exon 8	EST HUMAN	EST HUMAN	EST HUMAN	EST_HUMAN	EST HUMAN	Г	5031748 NT Homo sepiens high-mobility group (nonhistone chromosomal) protein 17 (HMG17), mRNA	4605052 NT Homo saplens lymphocyte antigen 75 (LY75) mRNA, and translated products	EST_HUMAN	TN	29855 NT	11525901 NT Homo sapiens RaP2 interacting protein 8 (RPIPB), mRNA	11525901 NT Homo sapiens RaP2 interacting protein 8 (RPIPB), mRNA	EST_HUMAN	11427320 NT Homo sapiens similar to laminin receptor 1 (67kD, ribosomal protein SA) (H. sapiens) (LOC63484). mRNA	11427320 NT Homo saplens similar to laminin receptor 1 (67kD, ribosomal protein SA) (H. saplens) (I OC63484) mRNA	EST_HUMAN	EST_HUMAN	11024711 NT Homo septens myosin, heavy polypeptide 4, skeletal muscia (MVH4) mRNA
		5.0E-90 AB011399.1	5.0E-90 AI523366.1	4.0E-90 AF231920.1	4.0E-90 AF231920.1	06-	4.0E-90 X99033.1	-90 AF007544.1	-90 D87675.1	-90 AB033070.1	-90 M95967.1	3.0E-90 AI370786.1	3.0E-90 BF516168.1	90 BF51616	3.0E-90 BE563833.1	-90 BE537913.1			06-:	2.0E-90 AI138213.1	2.0E-90 AB006627.1	-80	1 06-3		-90 AW 672686.1	8	-90	-90 AU118985.1	:-90 AU118985.1	-90
	Most Simila (Top) Hit BLAST E Value			L	L			4.0E	4.0E	4.0E	4.0E			L		2.0E		2.0E	2.0E				3.0E	2.0E	2.0E	2.0E	2.0E	2.0	2.0E	2.0E
	Expression Signal	1.6	5.4	1.61	1.81	4.34	8.55	76.0	3.77	2.2	1.62	0.7	1.07	1.07	33.84	4.32	16.29	16.29	1.76	2.37	1.16	10.95	0.72	0.72	4.78	8.36	8.36	0.92	0.92	4.12
	ORF SEQ ID NO:			25466	25467			28117		59944	29960		33244	33245	37011			26330		28972	29827		ı	31301	31311	35176	35177	35344	35345	36053
	Exon SEQ ID NO:	24607	24596							17490	17518	17669	L	20337	Ш		13815	ı	14988		17376	1		18569	18577	22204	22204			23043
	Probe SEQ ID NO:	12421	12471	324	324	1125	1727	3024	4761	4915	4943	9609	7794	7794	11491	230	1215	1215	2420	3912	4798	5035	5948	5948	5955	9705	9705	9870	9870	11345

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ORF SEQ ID NO:: 10 NO:	Most Similar Top Hit Acession Database Signal BLAST E No. Source	1497611 NT	NT	4.04 3.0E-91 U86959.1 NT Human L-type calcium channel beta-1 subunit (CACNLB1) gene, exons 10 and 11	0.46 3.0E-91 6601589 NT Homo sapiens ankyrin-like with transmembrane domains 1 (ANKTM1), mRNA	IN	LN.	NT		LN	1.0E-91]AW449746.1 EST_HUMAN	34402 NT	1.0E-91 BF348182.1 EST_HUMAN	EST_HUMAN	9.0E-92 AJ001689.1 NT	9.0E-92 AJ001689.1 NT	IN TN		427149 NT	9.0E-92 AF310105.1 NT	TN	NT	32 AB040945.1 NT		92 11422086 NT	92 W 26367.1 EST_HUMAN	92 BE386363.1 EST_HUMAN	8.0E-92 11434722 NT	1.03 8.0E-92 11434722.NT Homo sapiens diacydlycerol kinase, gamma (90kD) (DGKG), mRNA	100000	0.35 8.0E-32 AABUS 137.1 E31_NOWAN LINE E1 Epotate Seal On September 100004 Homo Sapiens cDNA clone IMAGE: 2782911 3' similar to	1 EST_HUMAN	32 AB048820.1
ο ο ο ο ο ο ο ο ο ο ο ο ο ο ο ο ο ο ο	8									2.37	6.6	0.84	1.76							4	0.75	0.75	1.11		1.84	11	L	1.03	1.03		98. 50.		
1 2 2 9 1 전략근임하다면임원인임원원원원원원원원원원원원원원원임원임원인임원(1414) 없 8												L						L									į					30251	22 30671
1 ~ 5	SE Exon ID SEQ ID	19293	334 20146	334 20146	387 20429	706 21245		L.	504 18025	52 12732		508 18237		L			389 17947	854 18281	L	<u> </u>	L	L		1	1		L	L	L		\perp	5265 1782	5591 18222

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Table 4
Single Exon Probes Expressed in Fetal Liver

SEQ ID OR OR OF OR OR OF OR OR OR OR OR OR OR OR OR OR OR OR OR		Signal Si	8 0E-92 8 0E-92 8 0E-92 8 0E-92 8 0E-92 8 0E-92 8 0E-92 8 0E-92 7 0E-92 8 0E-9	AF264717.1 AJ000979.1 AJ000979.1 AF264717.1 AJ000979.1 AF26438.1 X66536.1 X66536.1 X66536.1 AB014511.1 V13829.1 AF074393.1 AF074393.1 AF074393.1 AF07782.1 AF07782.1 AF07708.1 AF07708.1 AF07708.1 AF07708.1 AF07708.1 AF07708.1 AF07708.1 AF07500 AF167708.1	Source	Homo sepiens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP2 mRNA, complete cds Homo sepiens MCP-4 gene Hame sepiens DNA polymerase zata catalytic subunit variant 1 (REV3L) mRNA, complete cds H saplens gene for inter-alpha-trypsin inhibitor heavy chain H1, exons 7-8 H saplens gene for inter-alpha-trypsin inhibitor heavy chain H1, exons 7-8 Homo saplens AIM-1 protein (mp19) gene, exon 11 Human lens membrane protein (mp19) gene, exon 11 Human lens membrane protein (mp19) gene, exon 11 Human lens membrane protein (mp19) gene, exon 11 Human lens membrane protein (mp19) gene, exon 11 Human lens membrane protein (mp19) gene, exon 11 Human lens membrane protein (mp19) gene, exon 11 Human lens membrane protein (mp19) gene, exon 11 Human lens membrane protein (mp19) gene, exon 11 Human lens membrane protein (mp19) gene, exon 11 Human lens membrane protein (mp19) gene, exon 11 Human lens membrane protein (mp19) gene, exon 11 Human lens membrane protein (mp19) gene, exon 11 Human lens membrane protein (mp19) gene, exon 11 Human lens membrane protein (mp19) gene, exon 11 Human lens membrane protein (mp19) gene, exon 11 Human lens membrane protein (mp19) gene, exon 11 Human lens sepiens mRNA for KIAA0611 protein, partial cds Homo sapiens mRNA for KIAA0619 protein, partial cds Homo sapiens mRNA for KIAA0758 protein, partial cds Homo sapiens Sele (CLU/mpthorne To-Gli Speracursor, mRNA, complete cds Homo sapiens B-cell CLU/mpthorne protein 2, yeest) homolog (ACTR2), mRNA Homo sapiens B-cell CLU/mpthorne invasion and metastasis 1 (TIAM1) mRNA Homo sapiens T-cell lymphome invasion and metastasis 1 (TIAM1) mRNA Homo sapiens T-cell lymphome invasion and metastasis 1 (TIAM1) mRNA Homo sapiens T-cell lymphome invasion and metastasis 1 (TIAM1) mRNA Homo sapiens T-cell lymphome invasion and metastasis 1 (TIAM1) mRNA Homo sapiens P-cell lymphome invasion and metastasis 1 (TIAM1) mRNA Homo sapiens Cell lymphome invasion molecule (human, small cell lung cancer cell line OS2-R, mRNA N-CAM=145 kda neural cell achesion
5147 17717 3	29719 30148	108	7.0E-92	7.0E-92 S71824.1 7.0E-92 AL 163281.2	TA LA	nt] Homo statiens chromosome 21 seament HS21CD81
17910	30325	21.15	7.0E-92	36118		Homo saptens chromosome 21 segment HS21C081 Homo saptens prospero-related homenhoy 1 (PROX1) mRNA
1/910	0770	7 5	1.0E-82	2012		Admo sapiens prospero-related homeobox 1 (PROX1) mRNA
5466 18101 3	30419	4.93	7.0E-92	7.0E-92 AA446206.1	EST_HUMAN	zw66d12.r1 Soares_testis_NHT Homo sapiens cDNA clone iMAGE:781175 5'

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T							
Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
1631	14223		1.18	5.0E-92	5.0E-92 BE390882.1	EST_HUMAN	601283012F1 NIH_MGC_44 Hamo sepiens cDNA clane IMAGE:3605018 5'
2793	15346			3.0E-92		EST_HUMAN	601501242F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3902939 5'
9609				3.0E-92	5.1	EST_HUMAN	EST91020 Synowal sarcoma Homo sapiens cDNA 5' end similar to similar to ribosomal protein S13
10645	23177	36189	2.86	3.0E-92		TN	Human mRNA for alpha-ectinin
10845	23177	36190	2.86	3.0E-92		뉟	Human mRNA for alpha-actinin
12358	25103		1.76		3.0E-92 BF367138.1	EST_HUMAN	RC1-GN0021-240800-012-e11 GN0021 Homo sapiens cDNA
28	12707	25164	1.57		4501898 NT	FX	Homo sapiens activin A receptor, type IIB (ACVR2B) mRNA
153	12816	25304	92.62	2.0E-92		Ę	Homo sapiens carbamyl phosphate synthetase I mRNA, complete cds
191	12851	25334	3.47	2.0E-92	11422946 NT		Homo sapiens hypothetical protein dJ462023.2 (DJ462023.2), mRNA
191	12851	25335	3.47	2.0E-92	11422946 NT		Homo sapiens hypothetical protein dJ462023.2 (DJ462023.2), mRNA
779	13398	25900	12.47	2.0E-92	BE 299190.1	T HUMAN	601118337F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3028304 5'
779	13398	25901	12.47	2.0E-92	2.0E-92 BE299190.1	EST_HUMAN	601118337F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3028304 5'
1752	14342		1.42	2.0E-92		EZ	mrg=mas-related [human, Genomic, 2416 nt]
							wk27d07.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2413549 3' similar to TR:Q12844
1980	14583	27122	4.27	2.0E-92	E-92 AI818119.1	EST_HUMAN	Q12844 BREAKPOINT CLUSTER REGION PROTEIN
							wk27d07.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2413549 3' similar to TR:Q12844
8	14563	27123	4.27	2.0E-92	AI818119.1	HUMAN	Q12844 BREAKPOINT CLUSTER REGION PROTEIN:
2092	14672	27242	4.82	2.0E-92	4506860 NT	F	Homo saplens syndecan 4 (amphiglycan, ryudocan) (SDC4) mRNA
2683	15241	27809	21.03	2.0E-92	6912457 NT	L	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
2857	14287	26823	1.16	2.0E-92	11418424 NT	LN L	Homo sapiens collagen, type XII, elpha 1 (COL12A1), mRNA
2857	14287	26824	1.16	2.0E-92	11418424 NT	FN	Homo sapiens collagen, type XII, alpha 1 (COL12A1), mRNA
3673	16274	28740	1.13	2.0E-92		NT	Homo sapiens chromosome 21 unknown mRNA
3673	16274	28741	1.13	2.0E-92	2.0E-92 AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
3749	16350	28818	6.13	2.0E-92	5803180 NT	Ę	Homo sapiens stress-induced-phosphoprotein 1 (Hsp70/Hsp90-organizing protein) (STIP1), mRNA
4376	16963	29409	1.46	2.0E-92	M10976.1	LN	Human endogenous retroviral DNA (4-1), complete retroviral segment
4868 8	17444	29895	0.75	2.0E-92	2.0E-92 AF136523.1	5	Homo sapiens bile saft export pump (BSEP) mRNA, complete cds
5133	17705		4.94	2.0E-92		EST_HUMAN	DKFZp434C0414_11 434 (synonym: hies3) Home saplens cDNA clone DKFZp434C0414 5'
							Homo sapiens integrin, alpha L (antigen CD11A (p180), lymphocyte function-associated antigen 1; alpha
6444	19046		0.68	2.0E-92	4504756 NT	L	polypoptide) (ITGAL) mRNA
6727	18321	32126	2.75	2.0E-92	2.0E-92 AB028991.1	TN	Homo saplens mRNA for KIAA1068 protein, partial cds
7499	20005		0.75	2.0E-92		TN	Human NPY Y1-like receptor pseudogene mRNA, complete cds
8789	21328	34253	1.78	2.0E-92		EST HUMAN	hd02h02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2908371 3' similar to TR:002711 O02711 PRO-POL-DUTPASE POLYPROTEIN:
	ı						

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Top Hit Descriptor	Homo sapiens thyroid stimulating hormone receptor (TSHR), mRNA	Homo sapiens male-specific lethal-3 (Drosophila Hike 1 (MSL3L1), mRNA	CM4-LT0026-161289-062-g08 LT0026 Homo sapiens cDNA	CM4-L T0026-161289-062-g06 L T0026 Homo sapiens cDNA	Homo saplens mRNA for KIAA1093 protein, partial cds	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA	y80e08.r1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:145574.51	y80e08.r1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:145574.5	Homo sapiens ribosomal protein, large, P1 (RPLP1) mRNA	HTM1-288F HTM1 Homo sapiens cDNA	ted to the control of	tg01b02x1 NCI_CGAP_CLT1 Homo sapiens cDNA clone IMAGE:2107467 3' similar to SW: PTNF HUMAN	Q16825 PROTEIN-TYROSINE PHOSPHATASE D1 contains Alu repetitive element; contains element MER17 repetitive element:	AU121681 MAMMA1 Homo sabiens cDNA clone MAMMA1000738 5	EST188414 HCC cell line (matastasis to liver in mouse) II Homo sapiens cDNA 5' end similar to ribosomal protein L29	Homo sapiens calclum channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, atternatively	spliced	601281867F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3603832 5	Homo sapiens ribosomal protein L10a (RPL10A), mRNA	601460521F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3863908 5'	Homo sapiens chromosome 21 unknown mRNA	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1), mRNA	Homo sapiens mRNA for KIAA1267 protein, partial cds	Homo saplens PTH-responsive osteosarcoma B1 protein (B1) mRNA, complete cds	Homo sapiens mRNA for KIAA0611 protein, partial cds	wc09c08.x1 NCI_CGAP_Pr28 Homo sapiens cDNA clone IMAGE:2314670 3'	wc09c08.x1 NCI_CGAP_Pr28 Homo sapiens cDNA clone IMAGE:2314670 3'	Homo sapiens chromosome 21 segment HS21C001	Homo sapiens mRNA for CDC2L5 protein kinase, (CDC2L5 gene), isoform 2	Human skeletal muscle 1.3 kb mRNA for tropomyosin
Top Hit Detabase Source	FZ	۲	EST_HUMAN	EST_HUMAN	N.	F	EST_HUMAN	EST_HUMAN	F	EST_HUMAN	EST HUMAN		EST HUMAN	EST HUMAN	EST HUMAN			THUMAN		T_HUMAN	L/	N	NT	NT	LN	EST_HUMAN	EST_HUMAN	L	NT	NT
Top Hit Acession No.	11434900 NT	5803103 NT	2.0E-92 AW836290.1	2.0E-92 AW836290.1	AB029016.1	2.0E-92 6912457 NT	E-92 R78078.1	-92 R78078.1	450668 NT	:-92 BE439625.1	1.0E-92 Al380356.1		1.0E-92 Al380356.1	9.0E-93 AU121681.1	9.0E-93 AA316723.1		-93 AF 223391.1	-93 BE388571.1	11418526 NT	-93 BF036364.1	-93 AF231919.1	11526176 NT	6.0E-93 AB033093.1	-93 AF095771.1	-93 AB014511.1	-93 AI674184.1	:-93 AI674184.1	-93 AL163201.2	-93 AJ297710.1	-93 X04201 1
Most Similar (Top) Hit BLAST E Value	2.0E-92	2.0E-92	2.0E-92	2.0E-92	2.0E-92	2.0E-92	1.0E-92	1.0E-92	1.0E-92	1.0E-92	1.0E-92		1.0E-92	9.0E-93	9.0E-93			9.0E-93	9.0E-93	8.0E-93		6.0E-93	6.0E-93	6.0E-93	5.0E-93 /	5.0E-93	5.0E-93 /	5.0E-93	5.0E-93 /	5.0E-93
Expression Signal	96.9	1.92	1.64	1.64	2.99	96.37	1.6	1.6	10.49	1.01	4.16		4.16	3.52	10.76	,	1.18	1.02	18.44	4.23	8.56	0.59	1.17	1.37	1.92	6.35	6.35	0.97	0.9	2.6
ORF SEQ ID NO:	36182							27035		33642	34563		34564	27228				28742		32104	25410	28197	32189	32315	26545	26574	26575		27008	28364
SEQ ID NO:	23171				24459			14475		20730	21627		21627	14656	14667	16.004	100	162/5			12924	15726			1		14045	14115	15452	15882
Probe SEQ ID NO:	10639	10926	11022	11022	12248	12533	1890	1890	2118	8189	9091		9091	2076	2086	5,00	2/8/3	30/4	11501	6705	267	3111	6782	9669	1423	1453	1453	1523	1862	3270

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Single Exon Probes Expressed in Fetal Liver

			_	_	_	_			_	-	_	_	_	_	_		_	_	_	_	_	_		-		_	-	
Top Hit Descriptor	Human somatic cytochrome c (HC1) processed pseudogene, complete cds	Homo sapiens wbscr1 (WBSCR1) and wbscr5 (WBSCR5) genes, complete cds, alternatively spliced and replication factor C subunit 2 (RFC2) gene, complete cds	Homo sepiens protein phosphatase-1 regulatory subunit 7 (PPP1R7) gene, exon 11, complete cds and	alternatively spliced product	Homo sapiens discs, large (Drosophila) homolog 2 (chapsyn-110) (DLG2) mRNA	Homo sapiens discs, large (Drosophila) homolog 2 (chapsyn-110) (DLG2) mRNA	Homo sapiens secretory pathway component Sec31B-1 mRNA, alternatively spliced, complete cds	Homo sapiens TAR (HIV) RNA-binding protein 1 (TARBP1) mRNA	Homo sapiens WSB1 protein (WSB1) mRNA, complete cds	Homo sapiens nucleobindin 2 (NUCB2), mRNA	Homo sapiens gamma-glutamyfransferase 1 (GGT1), mRNA	2x50e09.s1 Soares_tests_NHT Hamo sapiens cDNA clone IMAGE:795688 3' similar to SW:CLPA_RAT	Homo saciens interferon gemma receptor 1 (IFNGR1) mRNA	Homo sapiens interferon gamma receptor 1 (IFNGR1) mRNA	Homo sepiens pescedillo (zebrafish) homolog 1, containing BRCT domain (PES1), mRNA	Homo sapiens pescadillo (zabrafish) homolog 1, containing BRCT domain (PES1), mRNA	Homo sapiens hypothetical protein FLJ20731 (FLJ20731), mRNA	Homo sapiens dystrophin (DMD) gene, deletion breakpoints 1-3 in intron 5	Homo sapiens TNF-inducible protein CG12-1 (CG12-1), mRNA	Homo sapiens tumor antigen SLP-8p (HCC8), mRNA	Homo sapiens interleukin 19 receptor 1 (IL18R1) mRNA	Homo sapiens tumor antigen SLP-8p (HCC8), mRNA	y894c12.r1 Stratagene liver (#937224) Homo sapiens cDNA clone IMAGE;78838 5' similar to similar to SP:A44391 A44391 SERUM RESPONSE ELEMENT-BINDING PROTEIN SRE-ZBP - HUMAN	AV692051 GKC Homo sapiens cDNA clone GKCDRF07 5	602246554F1 NIH_MGC_62 Homo sapiens cDNA clone IMAGE:4332036 5'	602248554F1 NIH_MGC_62 Homo sapiens cDNA clone IMAGE:4332036 5'	Homo sapiens tensin mRNA, complete cds	Homo sapiens GCN5 (general control of amino-acid synthesis, yeast, homolog)-like 2 (GCN5L2), mRNA
Top Hit Database Source	L'N	Ŀ		LN	NT	LN	FN	F	Z	Ł	Ę	NAMI H TAR	LZ	Z	Į.	F	ΙN	۲	NT	Z.	NT	NT	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	ΝΤ	FN.
Top Hit Acession No.	E-93 M22878.1	E-93 AF045555.1		DE-83 AF067136.1	4557526 NT	4557526 NT	E-93 AF274863.1	5032156 NT	DE-93 AF069313.2	11439599 NT	11417877 NT	F-03 44450033 1	TN 6257879 NT	4557879 NT	7857454 NT	7657454 NT	8923658 NT	E-93 AF047677.1	7656972 NT	7705396 NT	4504654 NT	7705396 NT	E-93 T46864.1	AV692051.1	3.0E-93 BF690630.1	BF690630.1	3.0E-53 AF225896.1	11428182 NT
Most Similar (Top) Hit BLAST E Value	5.0E-93	5.0E-93		5.0E-93	5.0E-93	5.0E-93	5.05-93	5.0E-93	5.0E-93	5.05-93	5.0E-93	4 0F-03		4.0E-93	4.0E-93	4.0E-93	4.0E-93	4.0E-93	4.0E-93	4.0E-93	4.0E-93	4.0E-93	4.0E-93	4.0E-93	3.05-93	3.0E-93	3.0E-93	3.0E-93
Expression Signal	0.93	1.49		3.68	0.68	0.68	2.26	2.87	1.58	2.14	2.11	8 45	1.56	1.58	2.39	2.39	1.	5.25	1,41	8.0	2.14	0.86	5.27	14.54	8.68	8.68	5.51	1.28
ORF SEQ ID NO:	31323				34000	34001	35002		35459	36247	30856		25595		25928		26339	27167	27771	28705		28705	31172	36563	28781			32079
SEQ ID	18588	18886	l	_		21080	22041	l	_	l	L	12787	13103	13103	13421	ł	l	l	15197	16227	16715	16227	18449	23527	Ł	l		19275
Prabe SEQ ID NO:	5967	8257		7700	8541	8541	9541	9721	8885	10705	12145	6	470	470	8	804	1225	2020	2638	3624	4122	5171	5825	11013	3713	3713	4319	6679

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Most Similar Top Hit Acession Top Hit Acession Top Hit Descriptor Signal Signal BLASTE No. Source	0.99 1.0E-93 AF227138.1 NT Homo sapiens candidate taste receptor T.2R.14 gene, complete cds	1 0E.	1.0E-83	1.0E-83 11431590 NT	1.0E-93 D42072.1 NT	1.0E-93 AB037832.1 NT	1.0E-93 Y10183.1 NT	93 AF182032.1 NT	1.0E-93 AB040918.1 NT	1.0E-93 AF091395.1 NT	1.0E-93 X13474.1 NT	1.0E-93 X13474.1 NT	1.0E-93 AL049801.1 NT	33646 NT	EST_HUMAN		-93 11417856 NT	-93 11417862 NT		1.0E-93 AF 240 / 60.1	8.0E-84 AL 163209.2	0.0E-84 AT 142402.1	0.0E-94 14:00.0	5.0E-04-ABO14312.1	5.0E-94 AB014512.1 NI	94 AA722434.1 EST_HUMAN	5.0E-94 AI015800.1 EST_HUMAN	BF529115.1 EST_HUMAN	11423962 NT	5.0E-94 11423862 NT	5.0E-94 T89398.1 EST_HUMAN	9.28 4.0E-94 L05094.1 INT Homo septiens ribosomai protein L27 mrNA, complete cas
Most Similar (Top) Hit BLAST E Value	1.0E	1 0E.	1.06	1.0E	1.0E	1.0E	1.0E	1.0E	1.0E	1.0E	1.0E	1.0E	1.0E	1.0E	1.0E	1.0E	1.0E	1.06						0.0	5.0E	5.0E						
Exan ORF SEQ EX NO:	18559 31288			L		L				20318 33218			22141 35108	L	24822 30793	24498	24557	24667 30874		25080		16632 28101		_		18809 31578	19653 32491	21112 34031	23373 36391	23373 36392		14468
Probe SEQ ID S	5938	4703	6344	6888	7297	8203	8480	8583	9373	2377	9507	9507	9641	10050	11686	12301	12397	12568	T	12584	10484	4034	12524	22/0	9220	6199	7081	8573	10852	10852	12010	1882

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Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
4827	17405	29859	3.19	4.05	-94 AI591312.1	EST_HUMAN	w11f10.x1 NCI_CGAP_Bm52 Home sapiens cDNA clone IMAGE:2259403 3' similar to TR:Q15265 Q15265 PROTEIN TYROSINE PHOSPHATASE ;
6594	19191	31995	2.35	4.0E-94	11440670 NT	L _Z	Homo sapiens solute carrier family 22 (organic cation transporter), member 1-like (SLC22A1L), mRNA
6594		31996	2.35	4.0E-94	11440670 NT	FZ	Homo sapiens solute carrier family 22 (organic cation transporter) member 1.1like (SI 0.024.11) and NA
6992			0.89	4.0E-94	-94 L27386.1	LN	Homo sapiens huntingtin (HD) gene, exon 37
11328		36035	1.6	4.0E-94	11545792 NT	Ŗ	Homo sapiens hypothetical protein FLJ12455 (FLJ12455), mRNA
11598			4	4.0E-94	4507822 NT	LN LN	Homo sapiens UDP glycosytransferase 2 family, polyceptide B11 (UGT2B11) mRNA
639			3.74	3.0E-94	3.0E-94 AB022785.1	LN.	Homo sapiens ASH2L gene, complete cds, similar to Drosophila ash2 oene
750			9.91	3.0E-94	4502506 NT	F	Homo sapiens complement component 5 (C5) mRNA
1776	_ [1.19	3.0E-94	-94 AF167706.1	F	Homo sapiens cysteine-rich repeat-containing protein S52 precursor, mRNA, complete crts
1776			1.10	3.0E-94		L	Homo sapiens cysteine-rich repeat-containing protein S52 precursor mRNA complete cds
1809 1809	_1		5.11	3.0E-94	4557556 NT	F	Hamo sapiens E1A binding protein p300 (EP300) mRNA
5861		31207	4.01	3.0E-94	11496268 NT	Į,	Homo sapiens zinc finger protein 277 (ZNF277), mRNA
6588	- 1	31678	1.07	3.0E-94	3.0E-94 AB011536.1	N⊤	Homo sapiens mRNA for MEGF2, partial cds
6279		31977	5.19	3.0E-94	11526228 NT	Ŋ	Homo sapiens chromosome 21 open reading frame 18 (C21 ORF18), mRNA
8 8	- 1	33593	0.89	3.0E-94		NT	Homo sapiens protocadherin alpha 13 (PCDH-alpha13) mRNA, complete cds
8523	21062	33984	3.81	3.0E-94		LN	Homo sapiens mRNA for KIAA0679 protein, partial cds
9511	22011	34970	7.24	3.0E-94	AF087942.1	FZ	Homo sapiens glycogenin-1L mRNA, complete cds
10979	23483		1.64	3.0E-94	4757821	L	Homo sapiens axonal transport of synaptic vesicles (ATSV) mRNA
11527	23975		1.62	3.0E-94		NT	Human cbl-b truncated form 1 lacking leucine zipper mRNA, complete cds
9867	22166	35140	0.51	2.0E-94	E-94 AI910393.1		wi30h11,x1 NCI_CGAP_Co16 Home sapiens cDNA clone IMAGE:2391813 3
3867	22166	35141	0.51	2.0E-94			wi30h11.x1 NCI_CGAP_Co16 Homo sapiens cDNA clone IMAGE:2391813 3'
9	12823	25311	2.34	1.0E-94			601175762F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531038 5'
3125	15739		1.98	1.0E-94		EST_HUMAN	601111698F1 NIH_MGC_16 Hamo sapiens cDNA clone IMAGE:3352559 5'
3125	15739		1.98	1.0E-94		EST_HUMAN	601111698F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352559 5'
4450	17036	29480	1.14	1.0E-94	9506692 NT		Homo sapiens hypothetical protein (FLJ20746), mRNA
6223			1.21	1.0E-94		TN	Escherichia coli K-12 MG1655 section 159 of 400 of the complete genome
£12	- 1		1.32	1.0E-94	1	EST_HUMAN	DKFZp434G0314_r1 434 (synonym: https3) Homo sapiens cDNA clone DKFZp434G0314 5'
6421	19024	31808	0.79	1.0E-94		EST_HUMAN	y87f02.r1 Soares infant brain 1NIB Homo sapiens cDNA clone IMAGE:45053 5'
8057	50599	33507	0.56	1.0E-94			Homo sapiens chromosome 21 segment HS21C004
8057	20599	33508	0.56	1.0E-94	AL163204.2	LN.	Homo sapiens chromosome 21 segment HS21C004
9180	21757	34703	2.29	1.R \$	11428710 NT	LN L	Homo sapiens paired box gene 5 (B-cell lineage specific activator protein) (PAX5), mRNA

PCT/US01/00669

WO 01/57277

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Single Exon Probes Expressed in Petal Liver	ORF SEQ Expression (Top) Hit Acession (Top) Hit Descriptor (Top) Hit Des	1.35 7.0E-95 AL163246.2 NT Homo saplens chromosome 21 segment HS21C046	34623 0.92 4.0E-95 BE 439625.1 EST HUMAN HTM1-289F HTM1 Hamo sapiens cDNA	37068 1.69 4.0E-95 AW950634.1 EST_HUMAN EST362704 MAGE resequences, MAGA Homo sapiens cDNA	I EST HUMAN	EST_HUMAN	30735 1.75 3.0E-95 BF529041.1 EST_HUMAN 602071146F1 NCI_CGAP_Brn64 Homo sapiens cDNA clone IMAGE:4214147 5'	354 NT	1.38 3.0E-95 AW958121.1 EST_HUMAN	1.38 3.0E-95 AW958121.1 EST_HUMAN	1.71 3.0E-95 7662289 NT	1.71 3.0E-95 7662289 NT	0.87 3.0E-95 BF213446.1 EST_HUMAN	3.0E-95[R83190.1 [EST_HUMAN	2.0E-95 4504374 NT	1.55 2.0E-95 7662027[NT		27127 3.25 2.0E-95 4507512 NT mRNA mRNA	1.57 2.0E-95 BE39387	1.23 2.0E-95 5453665 NT	1.23	4.2	1.05 2.0E-95 4758423 NT	8.06 2.0E-95 4504374 NT	2.54 2.0E-95 AF015452.1 NT	2.98	2.98 2.0E-95 7705900 NT	0.72 2.0E-95 AB037807.1 NT	28877 0.64 2.0E-95/AI290264.1 EST HUMAN CE03705;	1.42 2.0E-95 7657185 NT	3.24 2.0E-95 AF105067.1 NT	30185 3.19 2.0E-95 7661979 NT Hamo sapiens KIAA0187 gene product (KIAA0187), mRNA
	Exan SEQ ID ORF SE NO:	17089	21679 346	23996 370	23996 370	12885 253		24750 31;	L						13585 26	14278 26	14278 26	14566 27				15080			15805 28			16278 28				17756 30
	Probe SEQ ID S NO:	4505	9144	11548	11548	224	5634	5854	7404	7404	9277	9277	8662	10759	973	1686	1686	1984	1987	2470	2470	2505	2554	2844	3193	3621	3621	3877	3813	4452	5048	5191

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Top Hit Descriptor	zx11d07.r1 Soares_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:788157 5	zx11d07.r1 Soares_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:786157 5'	Homo sapiens CGI-48 protein (LOC51098), mRNA	Homo sapiens CGI-48 protein (LOC51096), mRNA	Homo sapiens angiotensin I converting enzyme (peptidy/dipeptidase A) 2 (ACE2), mRNA	Homo sapiens angiotansin I converting enzyme (peptidyl-dipeptidase A) 2 (ACE2), mRNA	Human muscle-type phosphofructokinase (PFK-M) gene, exon 7	Homo sapiens transcription factor 2, hepatic; LF-B3, variant hepatic nuclear factor (TCF2), mRNA	Homo sapiens transcription factor 2, hepatic; LF-B3; variant hepatic nuclear factor (TCF2), mRNA	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds	Homo sapiens huntingtin (Huntington disease) (HD), mRNA	Homo sapiens ribophorin II (RPN2), mRNA	Homo sapiens KIAA1065 protein (KIAA1065), mRNA	Homo sapiens bone morphogenetic protein receptor, type IA (BMPR1A) mRNA	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1)	goring: promisers historial protein (MS277B1A) mDNA	TOTIO SEPTEMBINING TOTION TO TOTION TO THE TOTION THE TOTION TO THE TOTI	Homo sapiens adenylosuccinate lyase (ADSL), mKNA	ztz3h04,r1 Soares ovary tumor NbHOT Homo sapiens cDNA cłone IMAGE:714007 5' similar to TR:G1067084 G1067084 F55H2.6;	2/23/04.11 Soares overy tumor NbHOT Homo sapiens cDNA clone IMAGE:714007 5' similar to	IK:G106/084 G106/084 F35HZ:0;	RC6-FN0019-290600-011-G11 FN0019 Hamo sapiens cDNA	RC6-FN0019-290800-011-G11 FN0019 Hamo sapiens cDNA	601437232F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3922423 5	601497608F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3899761 5'	601497608F1 NIH_MGC_70 Hamo saplens cDNA clone IMAGE:3899761 5'	PM0-LT0019-090300-002-d09 LT0019 Homo sapiens cDNA	Homo sapiens chromosome 21 unknown mRNA	Homo sapiens chromosome 21 segment HS21 C001	Human glyceraldehyde-3-phosphate dehydrogenase pseudogene 3'end
Top Hit Database Source	HUMAN	EST_HUMAN				NT				LN	L	NT			NT	LΝ	Ŀ	1	Z !	L L	EST_HUMAN		EST HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	NT	NT	NT
Top Hit Acession No.		95 AA447931.1	7705764 NT	7705764 NT	11225608 NT	11225608 NT	:-95 M59724.1	11427182 NT	11427182 NT	-95 AF257737.1	11435773 NT	11421795 NT	11434330 NT	4757853 NT	7662289 NT	7662289 NT	A 5040708 4	1000	1141/800/N1	11418164 NT	95 AA284651.1		-95 AA284651.1	-95 BF370000.1	-95 BF370000.1	-86 BE897259.1	-96 BE907607.1	-96 BE907607.1	-96 AW836047.1	-96 AF231920.1	-96 AL163201.2	-96 M26873.1
Most Similar (Top) Hit BLAST E Value	2.0E-95	2.0E-95	2.0E-95	2.0E-95	2.0E-95	2.0E-95	2.0E-95	2.0E-95	2.0E-95	2.0E-95	2.0E-95	2.0E-95	2.0E-95	2.0E-95	2.0E-95	2.0E-95	20.00	4.05-92	2.0E-95	2.0E-95	1.0E-95		1.0E-95 /	1.0E-95	1.0E-95	9.0E-96	8.0E-96	8.0E-96	8.0E-96	7.0E-96	6.0E-96	6.0E-96
Expression Signal	1.69	1.69	5.36	5.36	1.21	1.21	3.33	1.08	1.08	2.42	1.8	1.85	0.49	2.21	1.74	1.74	4 5	2.33	1.41	8.02	7.86		7.86	4.18	4.18	1.51	1.19	1.19	2.71	0.99	1.65	11.93
ORF SEQ ID NO:	30237	30238	30778	30779	31223	31224	31670	31974		32084	32426		35769	36150		37086		1/800	١	30899	31140				L							Ц
Exon SEQ ID NO:	17814	17814	18298	18298	18498	18498	18899	19175	19175	19281	19595	21606	l	23136	١.	23994				24646	18424		18424	20043			ı	15415	L			Ш
Probe SEO ID NO:	5251	5251	5671	5671	5876	5876	6291	6577	6577	6685	6861	6906	10283	10602	11546	11548		2012	12220	12534	5799		5799	7523	7523	8135	487	467	5702	3980	3360	3529

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Single Exon Probes Expressed III Fetal Liver	Top Hit Descriptor	Homo sapiens sialytransferase 6 (N-acetyllacosaminide alpha 2,3-sialytransferase) (SIAT6), mRNA	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA	Homo sapiens myosin, heavy polypeptide 2, skeletal muscle, adult (MYH2), mRNA	Homo sapiens mRNA for KIAA1172 protein, partial cds	Homo sapiens mRNA for KIAA1172 protein, partial cds	Homo sapiens mRNA for KIAA1172 protein, partial cds	Homo sapiens phosphodiesterase 6A, cGMP-specific, rod, alpha (PDE6A), mRNA	Homo sapiens transient receptor potential channel 5 (TRPC5), mRNA	H.sapiens DNA for monoamine oxidase type A (7) (partial)	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1), mRNA	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1), mRNA	Homo sapiens mRNA for KIAA0960 protein, partial cds	Homo sapiens mRNA for 14-3-3gamma, complete cds	Human type IV collagenase (CLG4B) gene, exon 5	Human type IV collagenase (CLG4B) gene, exon 5	Homo sapiens KIAA0175 gene product (KIAA0175), mRNA	y87h12.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE.212327 5'	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA	Homo sapiens chromosome 21 segment HS21C048	RC3-HT0230-040500-110-g02 HT0230 Homo sapiens cDNA	AV689461 GKC Homo sapiens cDNA clone GKCFMD07 5'	2819351.5prime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2819351 5'	Human endogenous retrovirus type K (HERV-K), gag, pol and env genes	EST367124 MAGE resequences, MAGC Homo sapiens cDNA	EST367124 MAGE resequences, MAGC Homo sapiens cDNA	Human hepatocyte growth factor gene, exon 1	Human hepatocyte growth factor gene, exon 1	Felis catus superfast myosin heavy chain (sMyHC) mRNA, complete cds	Homo sapiens transient receptor potential channel 5 (TRPC5), mRNA	Homo sapiens HSPC144 protein (HSPC144), mRNA	Homo sapiens HSPC144 protein (HSPC144), mRNA
Exon Piopes	Top Hit Database Source	LN	NT	NT	NT	NT	TN	NT	NT	IN	NT	IN	NT	LΝ	FN	TN	LN	LN	NT	EST_HUMAN	NT	TN	EST_HUMAN	EST_HUMAN	EST_HUMAN	LN	EST_HUMAN	EST_HUMAN	LN	NT	LN	IN	N	N
aifilic	Top Hit Acession No.	11422642 NT	7662289 NT	7662289 NT	1N 6523333 NT	AB032998.1	5.0E-96 AB032998.1	E-96 AB032998.1	11416767 NT	6912735 NT	-96 X60812.1	E-96 AF149773.1	11424399 NT	11424399 NT	E-96 AB023177.1	E-96 AB024334.1	M68347.1	M68347.1	7861973 NT	168656.1	4503098 NT	E-96 AL163248.2	2.0E-96 BE148074.1	2.0E-96 AV689461.1	AW 249440.1	Y18890.1	1.0E-96 AW955054.1	1.0E-96 AW955054.1	E-96 M75967.1	E-96 M75967.1	E-96 U51472.2	6912735 NT	7661803 NT	7661803 NT
	Most Similar (Top) Hit BLAST E Value	6.0E-98	6.0E-96	8.0E-96	6.0E-96	5.0E-96	5.0E-96/	5.0E-96	5.0E-96	5.0E-96	5.0E-96	5.0E-96	5.0E-96	5.0E-96	5.0E-96	5.0E-96	5.0E-96	5.0E-96 M68347.1	5.0E-96	3.0E-96 H68656.1	2.0E-98	2.0E-96	2.0E-96	2.0E-96	2.0E-96	1.0E-96 Y18890.1	1.0E-96	1.0E-96	1.0E-96	1.0E-96	1.0E-96	1.0E-96	1.0E-96	1.0E-96
	Expression Signal	0.85	2.52	2.52	1.96	2.95	3.61	3.61	0.91	0.59	1.6	1.1	4.05	4.05	0.76	1.7	1.62	1.62	1.86	8.01	3.68	1.52	1.56	5.45	1.71	2.62	3.32	3.32	1.3	1.3	1,1	1.08	6.0	0.9
	ORF SEQ ID NO:	31168	36932	2692	36978	25479		26006		28151		32160	32445	32448	32501	32914		33500					29898			25808	26951	L	27421		27455	30455	li	33609
	Exon SEQ ID NO:	18444	23871	23871	23911			13489	15209	15677	17604	19351	19812	19812	19861	20044				16855	13073	13396	17447	21449	24176	13321	14407	14407	14846	14846	15398	18065		20695
	Probe SEQ ID NO:	5820	11420	11420	11461	342	875	875	2650	3061	5030	6758	6878	6878	7090	7524	8050	8050	11618	4269	440	111	14871	8911	11795	669	1817	1817	2272	2272	2306	7045	8154	8154

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			_	1	_	_	_	_	_	_	_	т-	_	т-	т-	_	_	_	_	_	_	_	_	_	_			r	-	-	. –	_
	Top Hit Descriptor	Homo sapiens similar to ectonucleotide pyrophosphatase/phosphodiesterase 3 (H. sapiens) (LOC83214), mRNA	Homo sapiens secretory pathway component Sec31B-1 mRNA, alternativaly spliced, complete cds	Homo sapiens mRNA for KIAA1290 protein, pertial cds	Homo sapiens mRNA for KIAA1290 protein, partfal cds	Homo sapiens neuronal cell adhesion molecule (NRCAM) mRNA	Homo sapiens neuronal cell achesion molecule (NRCAM) mRNA	601863712F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4081202 5	IL5HT0117-011099-004-D07 HT0117 Homo sapiens cDNA	601440317F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3925133 5'	601440317F1 NIH_MGC_72 Hamo sapiens cDNA clone IMAGE:3925133 5'	EST22672 Adipose tissue, white II Homo sapiens cDNA 5' end	EST22672 Adipose lissue, white II Homo sapiens cONA 5' end	Human mRNA for alpha-actinin	DKFZp434N0323_r1 434 (synonym: htes3) Hamo sapiens cDNA clane DKFZp434N0323 5'	2x87e12.s1 Soares_NNHMPu_S1 Homo saplens cDNA clone IMAGE:767758 3' similar to TR:G1304125	RC0-RT0812-250900-032-a09 BT0812 Homo sapiens cDNA	MR0-HT0241-150500-010-b02 HT0241 Homo sapiens cDNA	MR0-HT0241-150500-010-b02 HT0241 Homo sapiens cDNA	CM0-BN0106-170300-283-a06 BN0106 Homo sapiens cDNA	Homo sapiens brefeldin A-inhibited guanine nucleotide-exchange protein 2 (BIG2), mRNA	Homo sapiens apolipoprotein H (beta-2-glycoprotein I) (APOH) mRNA	Homo sapiens mRNA for GalNAc alpha-2, 8-sialytransferase I, long form	Homo sapiens mRNA for GalNAc alphe-2, & sialytransferase I, long form	Homo sapiens ligase III, DNA, ATP-dependent (LIG3), transcript variant alpha, mRNA	Homo sapiens cystic fibrosis transmembrane conductance regulator, ATP-binding cassette (sub-family C,	member 7) (CFTR), mRNA	Homo sapiens ankyrin 2, neuronal (ANK2), transcript variant 2, mRNA	Homo sapiens ankyrin 2, neuronal (ANK2), transcript variant 2, mRNA	Homo sapiens laminin, alpha 2 (merosin, congenital muscular dystrophy) (LAMA2) mRNA	Homo sapiens v-src avian sarcoma (Schmidt-Ruppin A-2) viral oncogene homolog (SRC), mRNA	Homo sapiens cytochrome P450, subfamily IVB, polypeptide 1 (CYP4B1), mRNA
DOCUMENT OF THE PROPERTY OF TH	Top Hit Database Source	TN	LN	Z	LZ LZ	ZT.	TX	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST HUMAN	FZ	EST_HUMAN	HST HIMAN	EST HIMAN	EST HUMAN	EST HUMAN	EST HUMAN	LN	NT	LN	NT	NT		Ę	F	NT	NT	NT	Z.
S. S.	Top Hit Acession No.	11419429 NT	E-96 AF274863.1	E-96 AB033116.1	1.0E-96 AB033116.1	4826863 NT	4826863 NT	3F245240.1	6.0E-97 BE141849.1	E-97 BE898012.1	E-97 BE898012.1	E-97 AA320332.1	E-97 AA320332.1	E-97 X15804.1	E-97 AL043314.2	5 DF-97 AA418026 1	5 0F-97 BF154912 1	5.0E-97 BE148597.1	5.0E-97 BE148597.1	4.0E-97 BE004438.1	5453572 NT	4557326 NT	711339.2	111339.2	7710125 NT		11422155 NT	10947053 NT	10947053 NT	4557708 NT	11421793 NT	11423233 NT
	Most Similar (Top) Hit BLAST E Value	1.0E-96	1.0E-96	1.0			1.05-96			6.0	6.0	6.0E-97	6.0E-97	6.0E-97	5.0E-97	5.05-97	5 0F-97	5.0E-97	5.0E-97	4.0E-97	4.0E-97	4.0E-97	4.0E-97 Y11339.2	4.0E-97	4.0E-97 77		4.0E-97	4.0E-97	4.0E-97	4.0E-97	4.0E-97	4.0E-97
	Expression Signal	22.03	2.21	0.87	0.87	2.56	2.56	0.62	2.76	0.74	0.74	0.52	0.52	1.8	2.45	12.64	2 87	1.99	1.99	69.9	26.0	17.27	6.05	6.05	1.01		1.01	0.74	0.74	0.84	1.57	0.73
	ORF SEQ . ID NO:	34107	34247				30405				34328	35987	35988	36793	33409	33540	L	36934			27093			32400							33761	
	Exon SEQ ID NO:	21189	21323	L		18023					21403				20499	20626	ı	ı	()		14537				19659	Ì				i		21094
	Probe SEQ ID NO:	8650	8784	10064	10064	11781	11781	3370	7558	8864	8864	10486	10486	11284	7957	8085	9593	11421	11421	975	1953	5754	6912	6912	7088		7128	7778	7778	8078	8299	8555

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Probe SEQ iD NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acessian No.	Top Hit Database Source	Top Hit Descriptor
9282	21788		1.25	9.0E-98	9.0E-98 AF057726.1	NT	Homo sapiens 17-beta-hydroxysteroid dehydrogenase IV (HSD17B4) gene, exon 8
9289	21889	34835	1.15	9.0E-98	4507070 NT	L L	Homo sapiens SW I/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 3 (SMARCA3) mRNA
000	21.00	34838		9 OF-98	4507070 NT		Homo sapiens SW I/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 3 (SMARCA3) mRNA
10181	22858	35851		9.0E-98	98 AF141325.2	NT	Homo sapiens inosital polyphosphate 1-phosphatase (INPP1) gene, complete cds
10288	22763	35750		9.0E-98	1544	LN LN	Homo sapiens protease-activated receptor 3 (PAR3), mRNA
10883	23404	36422		9.0E-98		TN	Homo sapiens mRNA for KIAA1005 protein, partial cds
10883	23404	36423		9.0E-98	П	N	Homo sapiens mRNA for KIAA 1005 protein, partial cds
11894	13547	26064	4.29	9:0E-98	9.0E-98 BE090973.1	EST_HUMAN	PM4-BT0724-010400-008-a12 BT0724 Homo sapiens cDNA
27	12708		0.82	8.0E-98	98 AJ251158.1	NT	Homo sapiens partial MICB gene for MHC class I chain-related protein B, exons 2-3 and joined CDS
1607	14199	28732		8.0E-98		LN	Homo sapiens IL2-inducible T-cell kinase (ITK), mRNA
1807	14189		1.04	8.0E-98	31810	LN	Homo sapiens IL2-inducible T-cell kinase (ITK), mRNA
1784	14354			8.0E-98	98 AB017007.1	ΙΝ	Homo sapiens PMS2L16 mRNA, partial cds
1764	14354		1.64	8-30.8	98 AB017007.1	NT	Homo sapiens PMS2L16 mRNA, partial cds
3863	16461	28925	7.16	8.0E-98	8.0E-98 J04469.1	LN	Human mitochondrial creatine kinase (CKMT) gene, complete cds
5278	17838		1.43	8.0E-98	1.2	NT	Homo sapiens chromosome 21 segment HS210001
6233	18842	31614	1.18	5.0E-98		EST_HUMAN	601507503F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3909097 5
12398	24558		1.68	4.0E-98		EST_HUMAN	ht68f02.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3151899 3
2222	14797		1.15			EST HUMAN	AJ403124 3.4 (downregulated in larynx carcinoma) Homo sepiens cDNA clone is
2639	15198		1.67	3.0E-98		Ę	Homo saplens mRNA for KIAA0707 protein, partial cds
7772	ı		1.97	3.0E-98	AA0774	EST_HUMAN	7818H01 Chromosome 7 Fetal Brain cDNA Library Homo sapiens cDNA clone / 818H01
7028	19560			3.0E-98		LZ.	Homo sapiens activator of S phase kinase (ASK), mKNA
7028	19560	32387	1.68	3.0E-98	11419210 NT	Z	Homo sapiens activator of S phase kinase (ASK), mKNA
8686	21225	34145	3.05	3.0E-98	-98 H46698.1	EST_HUMAN	yo17g09.r1 Soares adult brain N2b5HB55Y Homo sapiens cDNA clone IMAGE:178240 3
9221	l			3.0E-98	8922096 NT	NT	Homo sapiens uncharacterized bone marrow protein BM039 (BM039), mRNA
96/6	22296		1.8	3.0E	98 AJ403124.1	EST_HUMAN	AJ403124 3.4 (downregulated in larynx carcinoma) Homo sapiens cDNA clone is
9676	22296	35280	1.8	3.0E	-98 AJ403124.1	EST HUMAN	AJ403124 3.4 (downregulated in larynx carcinoma) Homo saptens cDNA clone is
10369	22883	35856	8.0	3.0E	-98 BE900454.1	EST HUMAN	601673686F1 NIH_MGC_21 Homo sapiens cUNA clone IMAGE:3956317 5
10831	23352	36367	3.79	3.0E	-98 U59309.1	Z.	Human fumarase precursor (FH) mRNA, nuclear gene encoding mitochondrial protein, complete cds
12598				3.0E	11418177 NT	۲.	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
785	13384	.25883	0.81	2.0E	-98 BE261694.1	EST_HUMAN	601149486F1 NIH MGC 19 Homo sapiens cDNA clone IMAGE:3502245 5
765				2.0E	BE261694.1	ES1 HOMAN	5

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Top Hit Descriptor	601172658F1 NIH_MGC_17 Hamo sapiens cDNA clane IMAGE:3528134 5'	Homo sapiens chromosome 21 segment HS21C002	Homo sapiens potassium channel subunit (HERG-3) mRNA, complete ods	Homo sapiens fath-acid-Coenzyme A ligase, long-chain 4 (FACL4) mRNA	Homo sapiens attractin precursor (ATRN) gene, exon 16	Homo saplens attractin precursor (ATRN) gene, exon 16	Homo sapiens PDZ domain-containing guanine nucleotide exchange factor I (LOC51735), mRNA	Homo sapiens phosphatidylinositol 3-kinase, class 2, alpha polypeptide (PIK3C2A) mRNA	Homo sapiens hypothetical protein FLJ10488 (FLJ10488), mRNA	Homo sapiens hypothetical protein FLJ10488 (FLJ1048B), mRNA	Homo sapiens SH3-domain GRB2-like 2 (SH3GL2), mRNA	Homo sapiens SH3-domain GRB2-like 2 (SH3GL2), mRNA	Homo sapiens NKAT4b mRNA, complete cds	Homo sapiens NKAT4b mRNA, complete cds	H.sapiens arginase gene exon 3 (EC 3.5.3.1)	Homo sapiens AIM-1 protein (LOC51151), mRNA	Human cytochrome P450 (CYP2A13) gene, complete cds	Home sapiens chromosome 12 open reading frame 3 (C12ORF3), mRNA	[w38b04.x1 NC]_CGAP_U11 Homo sapiens cDNA clone IMAGE:2281743 3' similar to SW:RL2B_HUMAN_ P29316 60S RIBOSOMAL PROTEIN L23A.;	PM0-BN0065-100300-001-c06 BN0065 Homo sapiens cDNA	yv23f05.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:243585 5' similar to PIR:S54204 S54204 ribosomal protein L29 - human ;	zp98c09.r1 Stratagene muscle 937209 Homo sapiens cDNA clone IMAGE:628240 5' similar to TR:G805562	G806562 NEBULIN.;	601284986F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3606692 5	601284986F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3606692 5	Homo sapiens beta-tubulin mRNA, complete cds	Homo sapiens beta-tubulin mRNA, complete cds	QV-BT073-191298-012 BT073 Homo sapiens cDNA	QV-BT073-191298-012 BT073 Homo sapiens cDNA	EST380711 MAGE resequences, MAGJ Homo sapiens cDNA	bm69h07.x1 NCI_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2163421 3' similar to SW:BID_HUMAN P55957 BH3 INTERACTING DOMAIN DEATH AGONIST;
Top Hit Detabase Source	EST HUMAN	N	LN.	E	F	F	ĽΝ	⊢N	LΝ	LN	TN	LN	LΝ	LN	Ŋ	N⊤	LN	LΝ	EST_HUMAN	EST_HUMAN	EST HUMAN		EST_HUMAN	EST_HUMAN	EST_HUMAN	LN	LΝ	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN
Top Hit Acession No.	-98 BE294281.1	2.0E-98 AL163202.2	-98 AF032897.1	4758331 NT	-98 AF218902.1	-98 AF218902.1	7706512 NT	4505798 NT	11431271 NT	11431271 NT	11428813 NT	11428813 NT	76666.1	76666.1	-98 X12664.1	7705868 NT		11435947 NT	1.0E- 0 8 AI862007.1	1.0E-98 AW998611.1	1.0E-98 N49818.1		1.0E-98 AA195854.1	1.0E-98 BE390627.1	1.0E-98 BE390627.1	1.0E-98 AF141349.1	1.0E-98 AF141349.1	9.0E-99 AI905004.1	9.0E-99 AI905004.1	:-99 AW968635.1	9.0E-99 AI479829.1
Most Similar (Top) Hit BLAST E Value	2.0E-98	2.0E-98	2.0E-98 /	2.0E-98	2.0E-98 /	2.0E-98 /	2.0E-98	2.0E-98	2.0E-98	2.0E-98	2.0E-98	2.0E-98	2.0E-98 L76666.1	2.0E-98 L76666.1	2.0E-98	2.0E-98	2.0E-98 U22028.	2.0E-98	1.0E-98	1.0E-98	1.0E-98		1.0E-98	1.0E-98	1.0E-98	1.0E-98	1.0E-98	9.0E-99	9.0E-99	9.0E-99	9.0E-99
Expression Signal	3.36	1.37	0.74	4.65	96'0	96:0	4.63	1.03	1.13	1.13	3.84	3.84	0.62	0.62	3.9	1.31	1.6	1.62	67.29	2.16	13.46		3.14	1.12	1.12	8.27	8.27	0.93	0.93	4.33	3.39
ORF SEQ ID NO:	27272	27431	29419	29458	29968	29969				60088	34004		34078	34079	34934			68608			28970			31097	31098	34383	34384			31571	36549
SEQ ID NO:	14702	14853	16971	17018	17528	17528	18210			20132		21083	21164		21982			24305	13063	13113	14420		18152		18384	21466	21466	18804	18604	18801	23515
Probe SEQ ID NO:	2124	2279	4384	4432	4953	4953	5579	6761	7619	7819	8544	8544	8625	8625	9456	10312	11078	11999	430	8	1832		5520	5758	5758	8928	8928	5884	5984	8191	11001

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Тор Hit Descriptor	твенот.хт исі_ССАР_Впл25 Homo sepiens cDNA clone IMAGE:2163421 3' similar to SW:BID_HUMAN P55957 BH3 INTERACTING DOMAIN DEATH AGONIST ;	zn90d02.r1 Stratagene lung carcinoma 837218 Homo saplens cDNA clone IMAGE:565443 5' similar to TR:C662894 G662894 GPI-ANCHORED PROTEIN P137. ;	Homo sapiens Xq pseudoautosomal region; segment 2/2	Human endogenous retrovirus, complete genome	Hamo sapiens osailin (hLn) gene, exan 5	Homo sapiens NK-receptor (KIR-G2) gene, linker region exon	Human G2 protein mRNA, partial cds	Homo sapiens CD34 antigen (CD34) mRNA	Homo sapiens hypothetical protein FLJ20272 (FLJ20272), mRNA	Hamo sapiens GAP-like protein (LOC51308), mRNA	Hamo sapiens polycystic kidney disease (PKD1) gene, exans 27-30	Hamo sapiens polycystic kidney disease (PKD1) gene, exons 27-30	H.sapiens mRNA for estrogen receptor	Homo sapiens NDST4 mRNA for N-deacetylase/N-sulfotransferase 4, complete cds	Homo sapiens lodestar protein mRNA, complete cds	Homo sapiens Icdestar protein mRNA, complete cds	Homo sapiens inositol 1,4,5-triphosphate receptor, type 1 (ITPR1), mRNA	Homo sapiens inositol 1,4,5-triphosphate receptor, type 1 (ITPR1), mRNA	Homo sapiens BH3 interacting domain death agonist (BID), mRNA	Human protein C inhibitor (PCI-B) mRNA, complete cds	Human protein C inhibitor (PCI-B) mRNA, complete cds	H.sapiens IMPA gene, exon 8	Homo sapiens T cell receptor beta locus, TCRBV7S3A2 to TCRBV12S2 region	601513157F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3914391 5	Human E2A/HLA fusion protein (E2A/HLF) mRNA, complete cds	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Human Ku (b70/b80) subunit mRNA. complete cds	Homo saniens short chain L-3-hydroxyacyi-CoA dehydrogenase precursor (HADHSC) gene, nuclear gene	encoding mitochondrial protein, complete cds	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
Top Hit Database Source	EST_HUMAN P	EST_HUMAN TI	H H								H	H		F						1 IN	ΤN	NT T	TN TN	T_HUMAN	FZ.		L L	Т		
Top Hit Acession No.	99 AI479829.1			9635487 NT	7.0E-99 AF035808.1	7.0E-99 AF001886.1	99 U10991.1	4502660 NT	8923244 NT	7706136 NT	-99 L43610.1	-99 L43610.1	-99 X99101.1	-99 AB036429.1	-99 AF080255.1	-99 AF080255.1	11431994 NT	11431994 NT	11528299 NT	-99 U35464.1	-99 U35464.1	5.0E-99 Y11365.1	-99 AF009660.1	-99 BE890177.1			2.0E 00 M30038 4		2.0E-99 AF095703.1	-89 AF257737.1
Most Similar (Top) Hit BLAST E Value	9.0E-99	9.05-39	9.0E-99	8.0E-99	7.0E-99	7.0E-99	1 66-30'9	6.0E-99	6.0E-99	6.30.9	8.0E-99	6.0E-99	6.0E-99	6.0E-99	6.0E-99	6.30.9	6.0E-99	6.0E-99	6.0E-99	5.0E-99	5.0E-99	5.0E-99	5.0E-99	5.0E-99	3.0E-99	00 10 0	20.2	2.0E-99	2.0E-99	2.0E-99
Expression	3.39	1.97	2.11	1.59	10.3	2.52	0.57	1.3	1.01	F	1.39	1.39	1.11	1.88	4.03	4.03	0.62	0.62	4.18	9.63	9.63	1.33	1.44	2.1	5.49	46 30	4.03	17.1	1.67	1.28
ORF SEQ ID NO:	36550	36801	37133		31355	36698	25618	29887	30355			L						L	L			27149	l					79369	29677	
SEQ ID	23515	23744	24069	21200	18619	23927	13129	17437	L	19305	L	1	ı	1		ı	L	L		<u>L</u>		14589	L	1_			L	ROSC L	17223	
Probe SEQ ID NO:	11001	11292	11627	8661	6665	11477	497	4859	5382	6711	8780	6780	8048	8700	8797	8797	8854	8854	10598	88	953	2007	4663	12009	8263		7071	1826	4641	7687

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	Top Hit Descriptor	Homo sapiens chromosome 21 segment HS21C006	Homo sapiens chromosome 21 segment HS21C049	EST02975 Fetal brain, Stratagene (cat#936206) Homo sapiens cDNA clone HFBCR32	Homo sapiens X-linked anhidroitic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repost	selious	G.govilla DNA for ZNF80 gene homolog	RC3-HT0625-040500-022-b09 HT0825 Homo sapiens cDNA	Homo saplens DKFZPS86M0122 protein (DKFZP586M0122), mRNA	Homo sapiens DKFZP586M0122 protein (DKFZP586M0122), mRNA	602072064F1 NCI_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4215039 5	UI-H-BI1-afk-c-07-0-UI.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2722164 3	qf62f09.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1754633 3' similar to SW:CYT_COTJA P81061 CYSTATIN :	Bet mBNA for short two PR-catherin complete cds	Training and Market Bull and Art College Colle	Saprans mining to the saprans of the saprans mining to the saprans of the saprans	Homo sapiens KIAA0957 protein (KIAA0957), mRNA	Homo sapiens RGH2 gene, refrovirus-like element	Homo sapiens myotubularin-related protein 1a mRNA, partial cds	Homo sapiens follicle stimulating hormone receptor (FSHR) mRNA	Homo sapiens small optic lobes (Drosophila) homolog (SOLH) mRNA	Homo sapiens small optic lobes (Drosophila) homolog (SOLH) mRNA	601863164F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4080999 5	xae2601.x1 NCL_CGAP_CML1 Homo sapiens cDNA clone IMAGE:2573305 3' similar to gb:X12433 PROTEIN PHPS1-2 (HJMAN):	AU118182 HEMBA1 Homo sapiens cDNA clone HEMBA1003046 5'	Homo sabiens NF-F2-related factor 3 gene, complete cds	Human mRNA for plasma inter-sloha-tropsin inhibitor heavy chain H(3)	Annual Control of the Control of Annual Control	CHO (Applied Ext. to Tucheus signalling (Ext. 1) This is	Homo sapiens E.K. to nucleus signaling 1 (E.K.N.) mKNA	Homo sapiens hect domain and RLD 2 (HERC2), mRNA	AU140214 PLACE2 Homo sapiens cDNA clone PLACE2000137 5	y/38c08.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:129134 3	Homo sapiens Kho G i Pase activating protein 6 (AKHICAPO), transcript varient 4, minna
	Top Hit Database Source		Ĭ.	EST_HUMAN E				T_HUMAN				EST_HUMAN U			7			H	NT H				EST_HUMAN 9	XAM	Г	I							HUMAN	
P.B.	Top Hit Acession No.	00 AL163206.2		100 T05087.1		-		100 BE180609.1	7661685 NT	31685		1		١		100 X62468.1	1418976	100 D11078.1	100 AF057354.1	4503792 NT	5032104 NT	5032104 NT	100 BF244218.1	AMOZE083 4	400 At 1448482 4	Ī		A 4080.1	4557568 NT	4557568 NT	5729867 NT	100 AU140214.1	100 R10887.1	7382479 NT
	Most Similar (Top) Hit BLAST E Value	1.0E-100	1.0E-100	1.0E-100		1.0E-100 A	1.0E-100	1.0E-100	1.0E-100	1.0E-100	1.0E-100	1.0E-100	1 OF 100	100-100	1.0E-100			1.0E-100	1.0E-100	1.0E-100	1.0E-100	1.0E-100	1.0E-100		201	201-101	001-100	1.05-100	1.0E-100	1.0E-100	1.0E-100	1.0E-100		1,0E-100
	Expression Signal	1.18	1.76	2.06		1.84	8.1	1.78	3.18	3.18	0.93	2.49		20.1	2.78	0.87	2.8	3.92	1.83	2.66	3.16	3.16	1.55		300	300	00.7	10.01	1.06	1.06	1.29	5.02	1.46	2.42
	ORF SEQ ID NO:	25326						25647		26173			70.00				27853		29324	L	Ĺ								31692	31693		32025		
	Exon SEQ ID NO:	12842	12991	13014		13096	13148	<u> </u>		13662	14078	1	<u> </u>			15048	15286		16875	1	L						- 1	- 1	18918	18918	19164	L		19600
	Probe SEO ID NO:	8	339	365		462	515	535	1057	1057	1483	1594		286	2284	2482	2731	3053	4289	4320	5253	5253	5493		Ra G	8	2850	6003	6311	6311	6588	6823	6787	9888

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Table 4
Single Exon Probes Expressed in Fetal Liver

					>		
Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
6928	19588	32417	1.2	1.0E	-100 AA496841.1	EST_HUMAN	18633b06.r1 Gessler Wilms tumor Homo sapiens cDNA clone IMAGE:897587 5' similar to TR:G487418 G487418 ACTIN FILAMENT-ASSOCIATED PROTEIN.;
6269	19588	32418	1.2	1.05	-100 AA496841.1	EST HUMAN	ae33b06.r1 Gessler Wilms tumor Homo sapiens cDNA clone IMAGE:897587 5' similar to TR:G487418 G487418 ACTIN FILAMENT-ASSOCIATED PROTEIN.
9969	19543	32366	•	1.0E		EST_HUMAN	MR1-TN0046-060900-004-b05 TN0046 Homo sapiens cDNA
9969	19543	32367	1.25	1.0E-100	.100 BF376478.1	EST HUMAN	MR4-TN0046-060900-004-b05 TN0046 Hamo sapiens cDNA
6974	19550	32375		1.0E	-100 X04571.1	ΝΤ	Human mRNA for kidney epidermal growth factor (EGF) precursor
8489	21009	33926	12.09	1.0E-	100 BF103853.1	EST_HUMAN	601647357F1 NIH_MGC_61 Hamo saplens cDNA clane IMAGE:3931310 5:
8503	21042		4.61	1.0E-100		L	Homo sapiens chromosome 21 segment HS21C003
8944	21482	34404		1.0E-100	-100 AU116951.1	EST_HUMAN	AU116951 HEMBA1 Homo saplens cDNA clone HEMBA1000343 5
8944	21482	34405		1.0E	-100 AU116951.1	EST_HUMAN	AU116951 HEMBA1 Homo sapiens cDNA clone HEMBA1000343 5'
9159	21694	34638	3,35	1.0E	-100 AB040918.1	NT	Homo sapiens mRNA for KIAA1485 protein, partial cds
7660	94050		8	10.4	400 41032224	1444 III F00	wr37g09.x1 NCI_CGAP_Pr28 Homo sapiens cDNA clone IMAGE:2489920 3' similar to contains element
9354	20283	33192		- L	100 AW 998611 1	EST HIMAN	PM0-BN0065-100300-001-006 BN0065 Homo sanians cDNA
9407	21916			1 0F-100	-100 AU127720 1	EST HIMAN	AU127720 NT2RP2 Homo sanians cDNA clone NT2RP2001918 5'
9504	22004	34961	2.84	1.0E-100	-100 AB046846.1	Ę	Homo sapiens mRNA for KIAA 1626 protein, partial cds
9504	22004	34962	2.84	1.0E-100	-100 AB046846.1	Z	Homo sapiens mRNA for KIAA1626 protein, partial cds
9757	22255	35237	1.81	1.0E-100	-100 AW630487.1	EST_HUMAN	hh83c11.y1 NCI_CGAP_GU1 Homo sapiens cDNA clone IMAGE:2969396 5'
9757	22255		1.81	1.0E-100	-100 AW630487.1	EST_HUMAN	hh83c11.y1 NCL_CGAP_GU1 Homo sapiens cDNA clone IMAGE:2969396 5
9917	22413	35388		1.0E		EST_HUMAN	AV732101 HTF Homo sapiens cDNA clone HTFBIG01 5'
10386	22860			1.0E	9.1	EST_HUMAN	602020554F1 NC _CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4156165 5
10452	22946		1.38	1.0E		NT	Human endogenous retrovirus HERV-K, pol gene
10638	23170			1.0E	-100 BF327292.1	EST_HUMAN	MR0-BN0070-270300-008-h11 BN0070 Homo sapiens cDNA
11166	23673	36719		1.0E		N	H.sapiens CD97 gene exan 4
11166	23673			1.0E	-100 X94633.1	NT	H.sapiens CD97 gene excn 4
11232	23763	36818		1.0E	-100 AF111170.3	LN	Homo sapiens 14q32 Jagged2 gene, complete cds; and unknown gene
11232	23763	36819	4.28	1.0E-100	-100 AF111170.3	NT	Homo sapiens 14q32 Jagged2 gene, complete cds; and unknown gene
11261	12682	25138		1.0E	-100 AL163247.2	LΝ	Homo sapiens chromosome 21 segment HS210047
11529	23977		1.65	1.0E	-100 AF 266285.1	NT	Homo sapiens golgin-like protein (GLP) gene, complete cds
600	24400	037460		L	400000	ļ	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1)
2001	00000			0.0	104710	2 1	Benos, conjuncto cus Benos, conjuncto cus Lamba de constante establista acadella 4 (CLIOBBA) al DRIA
0007	24306			5		z	none septens on contain binding protein 1 (OHSBP1), mKNA
12842	24717	30868	3.53	1.0E-100	11417974]NT	N	Home sapiens transcobalamin II, macrocytic anemia (TCN2), mRNA

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Expression Signal Top Hit Acession (Top) Hit Acession Value Top Hit Acession Source Source Signal LAST E No. Top Hit Acession Source Source Source Source Scale 1.0E-101 Top Hit Acession Source Source Source Scale 1.0E-101 Top Hit Acession Top Hit Acession Source Source Scale 1.0E-101 Top Hit Acession Top	L						
25240 2.04 1.0E-101 7110714 NT 25241 2.04 1.0E-101 AB007915.2 NT 25848 5.28 1.0E-101 7110734 NT 25848 5.28 1.0E-101 7110734 NT 25848 5.28 1.0E-101 7110734 NT 265745 NT 265018 1.0E-101 765785 1.0E-101 765785 1.0E-101 26501 7110734 NT 265018 1.0E-101 AB21781 EST HUMAN 26501 1.0E-101 AB21781 EST HUMAN 27728 1.0E-101 AB21778 1.0E-101 AB21774.1 NT 27891 2.77 1.0E-101 AB21774.1 NT 27892 2.77 1.0E-101 AB21774.1 NT 27891 2.8330 2.92 1.0E-101 AB21774.1 NT 27891 2.93 1.0E-101 AB21774.1 NT 27891 2.93 1.0E-101 AB21774.1 NT 27891 2.93 1.0E-101 AB21774.1 NT 27891 2.93 1.0E-101 AB21785.1 EST HUMAN 27891 2.93 1.0E-101 AB21774.1 NT 27892 2.93 1.0E-101 AB21774.1 NT 27892 2.93 1.0E-101 AB05139.1 EST HUMAN 27891 1.38 1.0E-101 AB05139.1 EST HUMAN 27891 1.38 1.0E-101 AB05139.1 EST HUMAN 27891 1.38 1.0E-101 AB05139.1 EST HUMAN 27891 1.38 1.0E-101 AB05139.1 EST HUMAN 27891 1.38 1.0E-101 AB05139.1 EST HUMAN 27891 1.38 1.0E-101 AB05139.1 EST HUMAN 27891 1.38 1.0E-101 AB05139.1 EST HUMAN 27891 1.38 1.0E-101 AB05139.1 EST HUMAN 27891 1.38 1.0E-101 AB05139.1 EST HUMAN 27891 1.38 1.0E-101 AB05139.1 EST HUMAN 27891 1.38 1.0E-101 AB05139.1 EST HUMAN 27891 1.38 1.0E-101 AB05139.1 EST HUMAN 27891 1.38 1.0E-101 AB05139.1 EST HUMAN 27891 1.38 1.0E-101 AB05139.1 EST HUMAN 27891 1.38 1.0E-101 AB05139.1 EST HUMAN 27891 1.38 1.0E-101 AB05139.1 EST HUMAN 27891 1.38 1.0E-101 AB05139.1 EST HUMAN 27891 1.38 1.0E-101 AB05139.1 EST HUMAN 27891 1.38 1.0E-101 AB05139.1 EST HUMAN 27891 1.0E-101 AB05139.1 EST HUMAN 27891 1.0E-101 AB05139.1 EST HUMAN 27891 1.0E-101 AB05139.1 EST HUMAN 27891 1.0E-101 AB05139.1 EST HUMAN 27891 1.0E-101 AB05139.1 EST HUMAN 27891 1.0E-101 AB05139.1 EST HUMAN 27891 1.0E-101 AB05139.1 EST HUMAN 27891 1.0E-101 AB05139.1 EST HUMAN 27891 1.0E-101 AB05139.1 EST HUMAN 27891 1.0E-101 AB05139.1 EST HUMAN 27891 1.0E-101 AB05139.1 EST HUMAN 27891 1.0E-101 AB05139.1 EST HUMAN 27891 1.0E-101 AB05139.1 EST HUMAN 27891 1.0E-101 AB05139.1 EST HUMAN 27891 1.0E-101 AB05139.1 EST HUMAN 27891 1.0E-101 AB05139.1 EST HUMAN 27891 1.0E-101 AB05139.1 EST H				Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
25241 2.04 1.0E-101 AB007915.2 NT 25842 1.77 1.0E-101 AB007915.2 NT 25848 5.28 1.0E-101 7110734 NT 25849 5.28 1.0E-101 7110734 NT 258049 5.28 1.0E-101 7657454 NT 26018 0.88 1.0E-101 7657454 NT 26018 0.88 1.0E-101 7657454 NT 26019 0.88 1.0E-101 765261 NT 26010 0.89 1.0E-101 766218.1 EST_HUMAN 26204 0.9 1.0E-101 766218.3 NT 27724 0.9 1.0E-101 A502996 NT 27724 1.08 1.0E-101 A502996 NT 27724 1.08 1.0E-101 A502996 NT 27724 1.08 1.0E-101 A502996 NT 27528 1.08 1.0E-101 A502996 NT <t< td=""><td>4 44 3</td><td></td><td></td><td>1.0E-101</td><td>7110714</td><td>トラ</td><td>Homo sapiens SEC14 (S. cerevisiae)-like 2 (SEC14L2), mRNA</td></t<>	4 44 3			1.0E-101	7110714	トラ	Homo sapiens SEC14 (S. cerevisiae)-like 2 (SEC14L2), mRNA
25822 1,77 1,0E-101 AB007915.2 NT 25848 5.28 1,0E-101 7110734 NT 25849 5.28 1,0E-101 7110734 NT 25825 3.37 1,0E-101 7110734 NT 28018 0.88 1,0E-101 7657454 NT 28018 0.88 1,0E-101 766218.1 EST_HUMAN 26204 1.88 1,0E-101 766218.3 NT 26204 1.89 1,0E-101 766218.3 NT 27132 1.64 1,0E-101 766218.3 NT 277248 1.98 1,0E-101 766218.3 NT 27728 1.08-101 A502996 NT NT 277891 1.08-101 A502996 NT NT 277892 1.0E-101 A502996 NT NT 27891 1.0B-101 A7283774.1 NT NT 27891 2.93 1.0E-101 AV3857744.1 NT	ĮΨ)			1.0E-101		TZ	Homo sapiens SEC14 (S. cerevislae)-like 2 (SEC14L2), mRNA
25848 5.28 1.0E-101 7110734 NT 25849 5.28 1.0E-101 7110734 NT 25826 3.37 1.0E-101 7657454 NT 28018 1.08 1.0E-101 7657454 NT 28018 0.88 1.0E-101 220664.1 NT 28018 0.88 1.0E-101 BF68128.1 EST_HUMAN 28017 0.9 1.0E-101 A502966 NT EST_HUMAN 28018 0.9 1.0E-101 A502966 NT EST_HUMAN 277248 1.0E-101 A502966 NT NT NT 27728 1.0E-101 A502966 NT NT NT 27728 1.0E-101 A502960 NT NT NT 27778 1.0E-101 A1262312.1 NT NT 27891 2.71 1.0E-101 A126231.1 NT 27892 2.71 1.0E-101 A286256.1 EST_HUMAN 27891 2.93 1.0E-101 AV865556.1 EST_HUMAN 27891	122			1.0E-101		L7	Homo sapiens mRNA for KIAA0446 protein, partial cds
25949 5.29 1.0E-101 7110734 NT 25926 3.37 1.0E-101 7657454 NT 26018 1.98 1.0E-101 4503914 NT 28018 0.88 1.0E-101 220864.1 NT 28029 1.98 1.0E-101 BF681218.1 EST_HUMAN 26204 1.58 1.0E-101 A502996 NT 26204 1.58 1.0E-101 A502996 NT 277248 1.54 1.0E-101 A502996 NT 27728 1.08 1.0E-101 A502996 NT 27789 1.0E-101 A7252312 NT 27891 2.71 1.0E-101 A7252312 NT 27891 2.71 1.0E-101 A727744.1 NT 2789	쁘			1.0E-101		トフ	Homo sapiens ventral anterior homeobox 2 (VAX2), mRNA
25925 3.37 1.0E-101 7657454 NT 26018 1.98 1.0E-101 220866.1 NT 26149 24.99 1.0E-101 220866.1 NT 26920 1.58 1.0E-101 A50296.1 NT 26917 0.9 1.0E-101 A50298.0 NT 26917 0.9 1.0E-101 A50298.0 NT 27918 1.58 1.0E-101 A50298.0 NT 277248 1.58 1.0E-101 A50298.0 NT 27728 1.0E-101 A50298.0 NT NT 27728 1.0E-101 A72993.1 NT NT 27789 1.0E-101 A729374.1 NT NT 27891 2.71 1.0E-101 AJ23774.1 NT 27891 2.93 1.0E-101 AV86556.1 EST_HUMAN 27891 2.93 1.0E-101 AV86556.1 NT 27891 2.93 1.0E-101 AV86558.1 NT	ı¤			1.0E-101		トラ	Homo sapiens ventral anterior homeobox 2 (VAX2), mRNA
26018 1.96 1.0E-101 4503914 NT 26048 0.88 1.0E-101 IZ20656.1 NT 26149 24.99 1.0E-101 IZ50656.1 INT 26977 0.9 1.0E-101 IZ51878.1 EST_HUMAN 26917 0.9 1.0E-101 7682183 NT 27048 1.83 1.0E-101 7682183 NT 277248 1.83 1.0E-101 4502896 NT 27728 1.24 1.0E-101 4502896 NT 27728 1.0E-101 4502893.1 NT NT 277891 2.71 1.0E-101 AJ237744.1 NT 27892 2.71 1.0E-101 AJ237744.1 NT 27891 2.93 1.0E-101 AV36556.1 EST_HUMAN 27891 2.93 1.0E-101 AV36556.1 INT 28010 4.28 1.0E-101 AV3657744.1 NT 28010 4.28 1.0E-101 AV36578.1 <t< td=""><td>122</td><td></td><td></td><td>1.0E-101</td><td></td><td>トフ</td><td>Homo sapiens pescadillo (zebrafish) homolog 1, containing BRCT domain (PES1), mRNA</td></t<>	122			1.0E-101		トフ	Homo sapiens pescadillo (zebrafish) homolog 1, containing BRCT domain (PES1), mRNA
26088 0.88 1.0E-101 Z20666.1 NT 26149 24.99 1.0E-101 BF681218.1 EST_HUMAN 26204 1.58 1.0E-101 7662183 NT 26918 0.9 1.0E-101 7662183 NT 27248 1.54 1.0E-101 7662183 NT 27748 1.54 1.0E-101 772983 NT 27758 1.0B 1.0E-101 772983 NT 277891 2.71 1.0E-101 772983 NT 27892 2.71 1.0E-101 AJ237744.1 NT 27893 2.71 1.0E-101 AJ237744.1 NT 27891 2.71 1.0E-101 AJ237744.1 NT 27892 1.0B 1.0E-101 AJ237744.1 NT 27891 2.93 1.0E-101 AJ237744.1 NT 27892 1.0B 1.0E-101 AJ237744.1 NT 27891 2.93 1.0E-101 AJ237744.1 NT	ı S			1.0E-101		5	Homo sepiens phosphoribosyklycinamide formyltransferase, phosphoribosyklycinamide synthetase, phosphoribosylaminolmidazde synthetase (GART) mRNA
26149 24.99 1.0E-101 BF681218.1 EST_HUMAN 26204 1.58 1.0E-101 7682183 NT 26917 0.9 1.0E-101 7682183 NT 27818 0.9 1.0E-101 7682183 NT 27748 1.54 1.0E-101 7682183 NT 27758 1.54 1.0E-101 752892 NT 27768 1.08 1.0E-101 752892 NT 277891 2.71 1.0E-101 AJ237744.1 NT 27892 2.71 1.0E-101 AJ237744.1 NT 27893 2.71 1.0E-101 AJ237744.1 NT 27894 2.92 1.0E-101 AJ237744.1 NT 27895 2.92 1.0E-101 AJ237744.1 NT 27895 2.92 1.0E-101 AJ237744.1 NT 27895 2.93 1.0E-101 AJ237744.1 NT 27896 2.93 1.0E-101 AJ237744.1 NT <td>lio l</td> <td></td> <td></td> <td>1.0E-101</td> <td></td> <td>5</td> <td>Homo sapiens of cardiac alpha-myosin heavy chain gene</td>	lio l			1.0E-101		5	Homo sapiens of cardiac alpha-myosin heavy chain gene
26204 1.58 1.0E-101 AI221878.1 EST HUMAN 26917 0.9 1.0E-101 7662183 NT 27132 1.54 1.0E-101 7662183 NT 27248 1.53 1.0E-101 7662183 NT 27528 1.24 1.0E-101 572898 NT 277891 1.083 1.0E-101 572898 NT 27892 2.71 1.0E-101 572892 NT 27893 2.71 1.0E-101 A3237744.1 NT 27891 2.71 1.0E-101 A3237744.1 NT 28515 1.0E-101 A3237744.1 NT NT 27891 2.93 1.0E-101 A928250.1 EST_HUMAN 27892 2.93 1.0E-101 AV3237744.1 NT 27891 2.93 1.0E-101 A3237744.1 NT 27892 2.93 1.0E-101 A3237744.1 NT 27892 2.93 1.0E-101 A3237744.1	8			1.0E-101		EST_HUMAN	802158474F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4297291 5'
26917 0.9 1.0E-101 7662183 NT 26918 0.9 1.0E-101 7662183 NT 27132 1.54 1.0E-101 7662183 NT 27248 1.53 1.0E-101 572892 NT 27528 1.24 1.0E-101 572892 NT 27788 1.24 1.0E-101 A523744.1 NT 27891 2.71 1.0E-101 A523744.1 NT 27892 2.71 1.0E-101 A485270 NT 28515 1.0E-101 A425374.1 NT NT 27891 2.93 1.0E-101 A426237.1 EST_HUMAN 27892 2.93 1.0E-101 AV357744.1 NT 27891 2.93 1.0E-101 AV357744.1 NT 27892 2.93 1.0E-101 AV357744.1 NT 27891 1.38 1.0E-101 AV357744.1 NT 27892 2.93 1.0E-101 AV357512 NT <td>18</td> <td></td> <td></td> <td>1.0E-101</td> <td></td> <td></td> <td>qg99e09.x1 Scares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1843336 3'</td>	18			1.0E-101			qg99e09.x1 Scares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1843336 3'
26918 0.9 1.0E-101 7662183 NT 27132 1.64 1.0E-101 4502996 NT 27248 1.83 1.0E-101 852396 NT 27728 1.24 1.0E-101 872892 NT 277891 2.71 1.0E-101 X72893.1 NT 27892 2.71 1.0E-101 X72893.1 NT 27893 2.71 1.0E-101 X72893.1 NT 28615 2.71 1.0E-101 A2523744.1 NT 28615 1.94 1.0E-101 A252377.1 EST_HUMAN 27891 2.93 1.0E-101 AV865586.1 EST_HUMAN 27892 2.93 1.0E-101 AV865586.1 EST_HUMAN 27891 2.93 1.0E-101 AV865586.1 EST_HUMAN 27892 2.93 1.0E-101 AV865139.1 EST_HUMAN 30180 1.38 1.0E-101 AV865139.1 EST_HUMAN 30567 1.28 1.0E-101 <td< td=""><td>5</td><td></td><td>6.0</td><td>1.0E-101</td><td></td><td>トフ</td><td>Homo sapiens KIAA0369 gene product (KIAA0569), mRNA</td></td<>	5		6.0	1.0E-101		トフ	Homo sapiens KIAA0369 gene product (KIAA0569), mRNA
27132 1,64 1,0E-101 4502996 NT 27248 1,83 1,0E-101 BE843070.1 EST_HUMAN 27528 1,24 1,0E-101 572992 NT 2778 1,083 1,0E-101 A237744.1 NT 27891 2,71 1,0E-101 A237744.1 NT 288330 2,92 1,0E-101 A252374.1 NT 28515 1,94 1,0E-101 A25237.1 NT 28515 1,94 1,0E-101 A895256.1 EST_HUMAN 27891 2,93 1,0E-101 AV353774.1 NT 27892 2,93 1,0E-101 AV35774.1 NT 28010 4,28 1,0E-101 AV35774.1 NT 28010 4,28 1,0E-101 AV35774.1 NT 30181 1,38 1,0E-101 AV35751.1 NT 30181 1,38 1,0E-101 AV35751.2 NT 30567 1,28 1,0E-101 AV37512.NT <td>5</td> <td></td> <td></td> <td>1.0E-101</td> <td></td> <td>トフ</td> <td>Homo sapiens KIAA0569 gene product (KIAA0569), mRNA</td>	5			1.0E-101		トフ	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
27248 1.68 1.0E-101 BE843070.1 EST_HUMAN 27528 1.24 1.0E-101 5729892 NT 27789 1.083 1.0E-101 AJ237744.1 NT 27891 2.71 1.0E-101 AJ237744.1 NT 28330 2.92 1.0E-101 AJ832774.1 NT 28515 1.0E-101 AJ823774.1 NT 27891 2.92 1.0E-101 AW865566.1 EST_HUMAN 27892 2.93 1.0E-101 AW865566.1 EST_HUMAN 27892 2.93 1.0E-101 AW865566.1 EST_HUMAN 27892 2.93 1.0E-101 AJ237744.1 NT 28010 4.28 1.0E-101 AJ237744.1 NT 30180 1.38 1.0E-101 AJ23774.1 NT 30181 1.38 1.0E-101 AW865139.1 EST_HUMAN 31530 3.48 1.0E-101 AW865139.1 EST_HUMAN 31531 3.48 1.0E-101 AW8	15			1.0E-101		5	Homo saplens carboxypeptidase A1 (pancreatic) (CPA1) mRNA
27528 1.24 1.0E-101 5729892 NT 27778 1.083 1.0E-101 X72893.1 NT 27891 2.71 1.0E-101 AJ237744.1 NT 27892 2.71 1.0E-101 AJ252712.1 NT 28330 2.92 1.0E-101 AJ85277.1 NT 28515 1.94 1.0E-101 AW865566.1 EST_HUMAN 27891 2.93 1.0E-101 AW865566.1 EST_HUMAN 27892 2.93 1.0E-101 AW865566.1 NT 28010 4.28 1.0E-101 AW865566.1 NT 28010 4.28 1.0E-101 AJ237744.1 NT 30180 1.38 1.0E-101 AW865139.1 EST_HUMAN 30181 1.38 1.0E-101 AW865139.1 EST_HUMAN 30567 1.28 1.0E-101 AW865139.1 EST_HUMAN 31530 3.48 1.0E-101 AW865139.1 EST_HUMAN 32203 1.06-101 AW865	짫			1.0E-101		EST_HUMAN	RC3-ST0281-160600-016-h09 ST0281 Homo saplens cDNA
27778 10.83 1,0E-101 X72993.1 NT 27891 271 1,0E-101 AJ237744.1 NT 27892 2.71 1,0E-101 AJ237744.1 NT 28330 2.92 1,0E-101 AJ25231.1 NT 28515 2.93 1,0E-101 AJ2527.1 EST_HUMAN 27891 2.93 1,0E-101 AJ237744.1 NT 27892 2.93 1,0E-101 AJ237744.1 NT 28010 4.28 1,0E-101 AJ237744.1 NT 28010 4.28 1,0E-101 AJ237744.1 NT 30180 1.38 1,0E-101 AB022785.1 NT 30181 1.0E-101 AB022785.1 NT 30567 1.28 1,0E-101 AW965139.1 EST_HUMAN 31530 3.48 1,0E-101 AW965139.1 EST_HUMAN 31531 3.48 1,0E-101 AW965139.1 EST_HUMAN 32233 1.0E-101 AW965139.1 EST_HUMAN 31531 3.48 1,0E-101 AW965139.1 EST_HUMAN 31531 3.48 1,0E-101 AW9651	4			1.0E-101		トフ	Homo sapiens A kinase (PRKA) anchor protein 6 (AKAP6), mRNA
27891 2.71 1.0E-101 AJ237744.1 NT 27892 2.71 1.0E-101 AJ237744.1 NT 28330 2.92 1.0E-101 AJ25231.1 EST_HUMAN 28515 2.92 1.0E-101 AW965559.1 EST_HUMAN 27891 2.93 1.0E-101 AW965556.1 EST_HUMAN 27892 2.93 1.0E-101 AW965556.1 INT 28010 4.29 1.0E-101 AJ237744.1 NT 28010 4.29 1.0E-101 AJ237744.1 NT 28010 4.29 1.0E-101 AB022785.1 NT 30180 1.38 1.0E-101 AW965139.1 EST_HUMAN 30567 1.28 1.0E-101 AW965139.1 EST_HUMAN 31530 3.48 1.0E-101 AW965139.1 EST_HUMAN 31531 3.48 1.0E-101 AW965139.1 EST_HUMAN 31531 3.48 1.0E-101 AW965139.1 EST_HUMAN 32203 1.0E-101 AW965139.1 T427512 NT 32203 1.0E-101 AW967134 NT T6E-101 AW967136.1	8			1.0E-101		7	H.sapiens EWS gene, exon 5
27892 2.71 1.0E-101 AJ237744.1 NT 28330 2.92 1.0E-101 AJ252312.1 NT 2831 2.92 1.0E-101 BF035327.1 EST_HUMAN 28515 1.94 1.0E-101 BF035327.1 EST_HUMAN 27891 2.93 1.0E-101 AW965569.1 EST_HUMAN 27892 2.93 1.0E-101 AJ237744.1 NT 27892 2.93 1.0E-101 AJ237744.1 NT 27892 2.93 1.0E-101 AJ237744.1 NT 28010 4.29 1.0E-101 AB022785.1 NT 30180 1.38 1.0E-101 AB022785.1 NT 30567 1.28 1.0E-101 AW965139.1 EST_HUMAN 31530 3.48 1.0E-101 AW965139.1 EST_HUMAN 31531 3.48 1.0E-101 AW965139.1 EST_HUMAN 32203 1.0E-101 AW965139.1 T427512 NT 32203 1.0E-101 AW965139.1 T437512 NT 1.18 1.0E-101 AW965139.1 T1430734 NT	32			1.0E-101		- -	Homo sapiens RIBIIR gene (partial), exon 12
28330 2.92 1.0E-101 AJ52312.1 NT 28515 2.97 1.0E-101 BF033327.1 EST_HUMAN 28515 1.94 1.0E-101 AW96556.1 EST_HUMAN 27891 2.93 1.0E-101 AJ237744.1 NT 27892 2.93 1.0E-101 AJ237744.1 NT 25010 4.29 1.0E-101 AJ237744.1 NT 25010 1.38 1.0E-101 AB022765.1 NT 30180 1.38 1.0E-101 AB022765.1 NT 30567 1.26 1.0E-101 AW965199.1 EST_HUMAN 31530 3.48 1.0E-101 AW965199.1 EST_HUMAN 31530 3.48 1.0E-101 AW965199.1 EST_HUMAN 31530 1.0E-101 AW965199.1 EST_HUMAN 31530 1.0E-101 AW965199.1 EST_HUMAN 31530 1.0E-101 AW965199.1 EST_HUMAN 31530 1.0E-101 AW965199.1 EST_HUMAN 31530 1.0E-101 AW965199.1 EST_HUMAN 31530 1.0E-101 AW965199.1 EST_HUMAN 31530 1.0E-101 AW965199.1 EST_HUMAN 31530 1.0E-101 AW965199.1 EST_HUMAN 31530 1.0E-101 AW965199.1 EST_HUMAN 32203 1.0E-101 AW965199.1 EST_HUMAN 32203 1.0E-101 AW965199.1 EST_HUMAN 32203 1.0E-101 AW965199.1 EST_HUMAN 32203 1.0E-101 AW965199.1 EST_HUMAN 32203 1.0E-101 AW965199.1 EST_HUMAN 32203 1.0E-101 AW965199.1 EST_HUMAN 32203 1.0E-101 AW965199.1 EST_HUMAN 32203 1.0E-101 AW965199.1 EST_HUMAN 32203 1.0E-101 AW965199.1 EST_HUMAN 32203 1.0E-101 AW965199.1 EST_HUMAN 32204 1.0E-101 AW965199.1 EST_HUMAN 32204 1.0E-101 AW965199.1 EST_HUMAN 32204 1.0E-101 AW965199.1 EST_HUMAN 32204 1.0E-101 AW965199.1 EST_HUMAN 32204 1.0E-101 AW965199.1 EST_HUMAN 32204 1.0E-101 AW965199.1 EST_HUMAN 32204 1.0E-101 AW965199.1 EST_HUMAN 32204 1.0E-101 AW965199.1 EST_HUMAN 32204 1.0E-101 AW965199.1 EST_HUMAN 32204 1.0E-101 AW965199.1 EST_HUMAN 32204 1.0E-101 AW965199.1 EST_HUMAN 32204 1.0E-101 AW965199.1 EST_HUMAN 32204 1.0E-101 AW965199.1 EST_HUMAN 32204 1.0E-101 AW965199.1 EST_HUMAN 32204 1.0E-101 AW965199.1 EST_HUMAN 32204 1.0E-101 AW965199.1 EST_HUMAN 32204 1.0E-101 AW965199.1 EST_HUMAN	3			1.0E-101		ト	Homo sapiens RIBIIR gene (partial), exon 12
2830 2.92 1.0E-101 4885270 NT 28530 2.37 1.0E-101 BF035327.1 EST_HUMAN 228515 1.94 1.0E-101 AW965556.1 EST_HUMAN 27891 2.93 1.0E-101 AJ237744.1 NT 27892 2.93 1.0E-101 AJ237744.1 NT 25010 4.29 1.0E-101 AJ237744.1 NT 20180 1.38 1.0E-101 AJ237744.1 NT 30180 1.38 1.0E-101 AJ237742.1 NT 30587 1.28 1.0E-101 AW965139.1 EST_HUMAN 31530 3.48 1.0E-101 AW965139.1 EST_HUMAN 31530 3.48 1.0E-101 AJ23731 NT 32203 1.0E 1.0E-101 AJ23731 NT 32203 1.0E-101 AJ23731 NT 32203 1.0E-101 AJ23731 NT 32203 1.0E-101 AJ23730 NT AJ274512 NT 32203 1.0E-101 AJ23730 NT AJ27512 NT 32203 1.0E-101 AJ23730 NT AJ27512 NT AJ2	8	88	10.39	1.0E-101		卢	Hómo sapiens genomic downstream Rhesus box
29515 1.0E-101 BF035327.1 EST_HUMAN 27891 2.93 1.0E-101 AV965556.1 EST_HUMAN 27892 2.93 1.0E-101 AJ237744.1 NT 27892 2.93 1.0E-101 AJ237744.1 NT 26010 4.29 1.0E-101 AB022785.1 NT 30180 1.38 1.0E-101 S921460 NT 30567 1.26 1.0E-101 S921460 NT 31530 3.48 1.0E-101 AV96519.1 EST_HUMAN 31531 3.48 1.0E-101 AV96519.1 EST_HUMAN 31531 3.48 1.0E-101 AV96519.1 EST_HUMAN 32203 1.0E-101 T427512 NT 32203 1.0E-101 T427512 NT 32203 1.0E-101 1.0E-101 T427512 NT 32203 1.0E-101 1.0E-101 T427512 NT 32203 1.0E-101 1.0E-101 T427512 NT 32203 1.0E-101 1.0E-101 T427512 NT 32203 1.0E-101 T427512 NT	9			1.0E-101	4885270	・ 上 フ	Homo sapiens gamma-glutamyltransferase 1 (GGT1) mRNA
28515 1.94 1.0E-101 AW965556.1 EST_HUMAN 27891 2.93 1.0E-101 AJ237744.1 NT 27892 2.93 1.0E-101 AJ237744.1 NT 28010 4.29 1.0E-101 AJ237744.1 NT 28010 1.38 1.0E-101 AB022765.1 NT 30180 1.38 1.0E-101 S921460 NT 30567 1.28 1.0E-101 AW985139.1 EST_HUMAN 31530 3.48 1.0E-101 AW985139.1 EST_HUMAN 32203 1.0E-101 AW985139.1 EST_HUMAN 32203 1.0E-101 AW985139.1 EST_HUMAN 32203 1.0E-101 AW985139.1 IT430734 NT 32203 1.0E-101 AW985139.1 IT430734 NT AZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ	製			1.0E-101		EST_HUMAN	601458531F1 NIH_MGC_66 Homo saplens cDNA clone IMAGE:3862086 5
27891 2.93 1.0E-101 AJ237744.1 NT 27892 2.93 1.0E-101 AJ237744.1 NT 28010 4.28 1.0E-101 AB022785.1 NT 30180 1.38 1.0E-101 S921460 NT 30181 1.38 1.0E-101 AV885139.1 EST_HUMAN 30567 1.26 1.0E-101 AV885139.1 EST_HUMAN 31530 3.48 1.0E-101 AV885139.1 EST_HUMAN 32203 1.0E-101 AV885139.1 T427512 NT 32203 1.0E-101 T6-101 T427512 NT 32203 1.0E-101 T6-101 T545780 NT 32203 1.0E-101 T6-101 T545780 NT	88			1.0E-101		EST_HUMAN	EST377629 MAGE resequences, MAGI Homo sapiens cDNA
27892 2.93 1.0E-101 AJ237744.1 NT 29010 4.29 1.0E-101 AB022785.1 NT 30180 1.38 1.0E-101 S921460 NT 30567 1.28 1.0E-101 S921460 NT 31530 3.48 1.0E-101 T427512 NT 32203 1.0E 1.0E 1.0E 1.0E 1.0E 1.0E 1.0E 1.0E	532		2.93	1.0E-101		<u> </u>	Homo sapiens RIBIIR gene (partial), exon 12
29010 4.29 1.0E-101 AB022785.1 NT 30180 1.38 1.0E-101 5921460 NT 30567 1.26 1.0E-101 5921460 NT 31530 3.48 1.0E-101 7427512 NT 32203 1.0E 1.0E 1.0E 1.0E 1.0E 1.0E 1.0E 1.0E	53,			1.0E-101		トフ	Homo sapiens RIBIIR gene (partial), exon 12
30180 1.38 1.0E-101 5921460 NT 30181 1.38 1.0E-101 5921460 NT 30567 1.28 1.0E-101 AW665139.1 EST_HUMAN 31530 3.48 1.0E-101 7427512 NT 32203 1.06 1.0E-101 11430734 NT 32740 4.87 1.0E-101 11545780 NT	954			1.0E-101		7	Homo sapiens ASH2L gene, complete cds, similar to Drosophila ash2 gene
30181 1.38 1.0E-101 5921460 NT 30567 1.28 1.0E-101 AW685139.1 EST_HUMAN 31530 3.48 1.0E-101 7427512 NT 32203 1.0E 1.0E 1.0I 11430734 NT 32740 4.87 1.0E-101 11545780 NT	775			1.0E-101		レフ	Homo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA
30567 1.26 1.0E-101 AW965139.1 EST_HUMAN 31530 3.48 1.0E-101 7427512 NT 31531 3.48 1.0E-101 7427512 NT 32203 1.06 1.0E-101 11430734 NT 1.18 1.0E-101 11545780 NT 1.18 1.0E-101 11545780 NT	77			1.0E-101			Homo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA
31530 3.48 1.0E-101 7427512 NT 31531 3.49 1.0E-101 7427512 NT 32203 1.06 1.0E-101 11430734 NT 1.18 1.0E-101 11545780 NT 3220 4.87 1.0E-101 11545780 NT	12		1.28	1.0E-101		THUMAN	EST377212 MAGE resequences, MAGI Homo sapiens cDNA
31531 3.48 1.0E-101 7427512 NT 32203 1.06 1.0E-101 11430734 NT 1.18 1.0E-101 11545780 NT 32740 4.87 1.0E-101 11545780 NT	376			1.0E-101	7427512	トフ	Homo sapiens cytoplasmic linker 2 (CYLN2), mRNA
32203 1.06 1.0E-101 11430734 NT 1.18 1.0E-101 11545780 NT 32740 4.87 1.0E-1014 E-208076 1 NT	37			1.0E-101		レフ	Homo sapiens cytoplasmic linker 2 (CYLN2), mRNA
1.18 1.0E-101 11545780 NT	38			1.0E-101		トフ	Homo sapiens carbonic anhydrase VII (CA7), mRNA
TN 1 05080649 101-101	8	4	1.18	1.0E-101		トフ	Homo sapiens hypothetical protein FLJ22087 (FLJ22087), mRNA
32/48 4:07 1:0C=101[A1 208970:1	8	32749	4.87	1.0E-101	E-101 AF208970.1	NT	Homo sapiens Kruppel-type zinc finger protein (PEG3) mRNA, alternative splice form 4, partial cds

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2/29g08.r1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:471998 5' similar to branched-chain alpha-keto scid dehydrogenase complex E1 alpha subunit [human, Genomic, 195 nt, to77d11.x1 NCI_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2184308 3' similar to gb:M26326 KERATIN, TYPE I CYTOSKELETAL 18 (HUMAN); to77d11.x1 NCI_CGAP_Gas4 Home sapiens cDNA clone IMAGE:2184309 3' similar to gb:M26326 hh74g10.71 NCI_CGAP_GU1 Homo sapiens cDNA clone IMAGE:2988578 5' similar to gb:J03143 INTERFERON-GAMMA RECEPTOR ALPHA CHAIN PRECURSOR (HUMAN); hh74g10.y1 NCI_CGAP_GU1 Homo saplens cDNA clone IMAGE:2968578 5' similar to gb:J03143 Homo sapiens Kruppel-type zinc finger protein (PEG3) mRNA, alternative splice form 4, partial cds INTERFERON-GAMMA RECEPTOR ALPHA CHAIN PRECURSOR (HUMAN); Homo sapiens gamma-glutamytransferase 1 (GGT1), transcript variant 3, mRNA 601472808T1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3875953 3* 601472808T1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3875953 3* Homo saplens phosphatidylinositol 4-kinase 230 (pi4K230) mRNA, complete cds Homo sapiens potassium channel, subfamily K, member 10 (KCNK10), mRNA wv55f12.x1 NCI_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2533487 3 801109217F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3349901 5 601680825F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:3950887 5 601880825F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:3950887 5 601121621F1 NIH_MGC_20 Hamo sapiens cDNA clane IMAGE:3345869 5 601121621F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3345869 5 601784686F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3996837 EST23783 Bone marrow Homo saplens cDNA 5' end similar to defensin 1 QV1-DT0088-240200-085-a01 DT0088 Homo saplens cDNA Homo sapiens Janus kinase 2 (a protein tyrosine kinase) (JAK2), mRNA Top Hit Descriptor RC1-BT0313-220700-018-f12 BT0313 Homo sapiens cDNA Homo sapiens mRNA for KIAA1351 protein, partial cds Human mRNA for pancreatic gamma-glutamytransferase Human mRNA for pancreatic gamma-glutamyltransferase Homo sapiens mRNA for KIAA1351 protein, partial cds Homo sapiens mRNA for KIAA0819 protein, partial cds KERATIN, TYPE I CYTOSKELETAL 18 (HUMAN); PIR:S54640 S54640 YD9335.03c protein - yeast; segment 8 of 9] EST_HUMAN EST_HUMAN EST_HUMAN EST_HUMAN EST_HUMAN EST_HUMAN EST_HUMAN EST HUMAN **EST HUMAN** EST_HUMAN EST_HUMAN EST_HUMAN EST HUMAN EST_HUMAN **EST HUMAN** EST_HUMAN EST_HUMAN Top Hit Detabase Source ΙN 탈 ١ź ¥ 눋 Top Hit Acession 9845492 10863960 11429127 1.0E-101 AW630070.1 1.0E-101 AA321316.1 1.0E-101 AW939051.1 1.0E-102 AF012872.1 1.0E-101 AW008475.1 1.0E-101 AW630070.1 BE257384.1 BF330759.1 BE619667.1 1.0E-101 BE619667.1 1.0E-101 BF029174.1 1.0E-101 BE275821.1 1.0E-101 S38327.1 1.0E-101 AB020626.1 1.0E-101 AF208970. 1.0E-101 AB037772. 1.0E-101 AI570293.1 1.0E-101 AI570293.1 1.0E-101 BE973648. X60069.1 1.0E-101 X60069.1 1.0E-101 1.0E-101 1.0E-101 1.0E-101 1.0E-101 1.0E-101 5 1.0E-101 (Top) Hit BLAST E 0.66 11.99 1.86 7.87 0.98 0.98 6.69 16.05 12.54 18.03 0.66 1.55 12.54 5.16 1.68 0.8 17.2 0.65 5.16 0.85 <u>8</u> 15.99 8 Expression Signal 32880 33104 33302 33722 34769 ORF SEQ 32750 33723 35147 35794 35945 25183 33301 35825 35826 36295 37126 34731 Ö N Ω SEQ ID 20092 20396 19887 20014 20396 20805 21779 21819 12722 20805 22936 24062 20321 22831 22831 23281 24478 ġ SEQ ID 7578 8940 9253 9383 9383 7361 7854 7854 9386 10337 7707 666/ 8284 8264 9253 9672 10337 10442 10442 10757 10988 11620 <u>&</u> 886 10308 12274 9672 Š

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Probe	Exon		Expression	Most Similar (Top) Hit	Top Hit Acession	. Top Hit Database	Top Hit Descriptor
Š Š Š		.; OZ O	Signal	BLAST E Value	o Z		
363	13012	25494	4.36	1.0E-102	02 AL163303.2	NT	Homo sapiens chromosome 21 segment HS21C103
88	13271		1.2	1.0E-102	02 BE252470.1	EST_HUMAN	601108292F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3344326 5
807	L		1.24	1.0E-102	4557534 NT		Homo sapiens down-regulated in edenoma (DRA) mRNA
1158	1			1.0E-102	M10976.1	TN	Human endogenous retroviral DNA (4-1), complete retroviral segment
1311	L		3.09	1.0E-102	11437146 NT		Homo sapiens solute carrier family 2 (facilitated glucose transporter), member 9 (SLC2A9), mRNA
1311	L	١.		1.0E-102	1	L/A	Homo sapiens solute carrier family 2 (facilitated glucose transporter), member 9 (SLC2A9), mRNA
1327	L		1.92	1.0E-102	4826977 NT		Homo sapiens reelin (RELN) mRNA
1484	L		164.12		BE408447.1	EST_HUMAN	601299982F1 NIH_MGC_21 Homo sepiens cDNA clone IMAGE:3629901 5
8	1	27,693		4	103/8/134869 1	EST HUMAN	am80c10.x1 Johnston frontal cortex Homo sapiens cDNA clone IMAGE:1539954 3' similar to SW:GG95_HUMAN Q08379 GOLGIN-95. ;
3	8 8			2		Т	am80c10.x1 Johnston frontal cortex Homo sapiens cDNA clone IMAGE:1339954 3' similar to
2348	14919	27494	1,34	1.0E-102	102 AI124669.1	EST_HUMAN	SW:GG95_HUMAN Q08379 GOLGIN-95.;
3101	L				81979		Homo sapiens KIAA0187 gene product (KIAA0187), mRNA
3167	L		4.07	1.0E-102	102 AU141005.1	EST_HUMAN	AU141005 PLACE4 Homo sepiens cDNA clone PLACE4000650 5'
3167	L	L	4.07	1.0E-102	102 AU141005.1	THUMAN	AU141005 PLACE4 Hamo sapiens cDNA clone PLACE4000650 5'
4316	L	L	1.84	1.0E-	102 AL163207.2		Homo sapiens chromosome 21 segment HS21C007
4503	L			1.0E-	1	EST_HUMAN	601107843F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3343882 5
5287	L				1.0E-102 R66488.1	EST_HUMAN	y32c04.r1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:140834 5
5574	Ì		1.66	L	1.1	LN	Homo sapiens protein phosphatase-1 regulatory subunit 7 (PPP1R7) gene, exon 7
5923				1.06	102 AB034951.1	LN	Homo sepiens HSC54 mRNA for heat shock cognete protein 54, complete cds
5957	L	31313	2.43			L	Homo sapiens histone deacetylase 7 (HDAC7), mRNA
5957	18579	31314	2.43		TN 868398 NT	L'A	Homo saplens histone deacetylass 7 (HDAC7), mKNA
5962	1	31318	0.75	1.0E-102	11433046 NT	NT	Homo sapiens hect domain and RLD 2 (HERC2), mRNA
	l			7 20	000 A 14508255 4	NAMILIE TOR	ar82/09.x1 Barstead colon HPLRB7 Homo sapiens cDNA clone IMAGE:2151785 3' similar to 1 K:Q13137 O13137 NDP52. :
200		31623	2.09	ָ קַרָּי	102 A1439020.1	NAMI H FA	801581505F1 NIH MGC 20 Homo saciens cDNA done IMAGE:3831241 5
BE	┸			2 2	102 BE386106 1	EST HUMAN	801277215F1 NIH MGC 20 Homo sapiens cDNA clone IMAGE:3618243 5'
2 2	1			1	102 DECOMO 1		Homo sapiens mRNA for Centaurin-alpha2 protein
1382	╛			ם כ	1,12,0000	MAN ILL FOR	AV7210738 C. Homo carians cDNA clone CivAAKD03 5
88	_1			1.05	102 AV /10/38.1	NAME TO L	CANA MANASA SAGAMA SALARA NTOOS Homo sanians CDNA
8165			۳	1.9	102 BE /63051.1	EN TOWAR	AVOIT TO CONTRACT TO THE CONTRACT OF THE CONTR
8244	4 20785			1.0E-	102 BE910555.1	EST HOMAN	60150110/T1 NIT MGC_/O TOMO SEPTEMBLE COUNTY COME INVOCE COORT TO COME
8431				1.0E-	102 AV694817.1	EST HUMAN	AV69461/ GKC Homo saprens curva gione Gruccia II 3
8431				- -	102 AV694817.1	EST_HUMAN	AV694817 GKC Homo sapiens conva digne GRUCECTT 3
853(9 21078	33997	0.52	- -	102 AB007923.1	L	Homo sapiens mittak Ig Nikko 404 protein, pariei Cas

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	_	_	_	_	_	_	~	_	_	_		_	_	_	_	_		_	_	_	-	-	_	_	-				_	_	
Top Hit Descriptor	601283770F1 NIH_MGC_44 Hamo saplens cDNA clone IMAGE:3605536 5	601283770F1 NIH_MGC_44 Home sapiens cDNA clone IMAGE:3605536 5	wi63b06.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2397971 3' similar to contains MER4.t1 MFR4 MFR4 repairing alament	AV755842 BM Home sablens cIDNA clone RMFALIDAS 5'	vd13d07.r1 Soures fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGF 67021 5'	yd13d07.r1 Sceres fetal liver spleen 1NFLS Homo saplens cDNA clone IMAGE:67021 5	AU124629 NT2RM4 Homo sapiens cDNA clone NT2RM4000309 5'	Homo sapiens phospholipid scramblase 1 gene, exon 1 and 5 flanking region	RC-BT074-260499-014 BT074 Homo sapiens cDNA	RC-BT074-280499-014 BT074 Homo saplens cDNA	on57h04.s.1 Soares_NFL_T_GBC_S1 Homo septens cDNA clone IMAGE:1560823 3' similar to SW:CAV2_HUMAN_P51636 CAVEOLIN-2_[11]:	801439392F1 NIH MGC 72 Homo saplens cDNA clone IMAGE:3924166 5'	Homo sapiens UDP glycosyltransferase 2 family, polypeptide B11 (UGT2B11) mRNA	Homo sapiens UDP glycosytransferase 2 family, potypeptide B11 (UGT2B11) mRNA	ak49h10.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1409347 3'	RC6-ET0072-150600-011-F01 ET0072 Homo sapiens cDNA	Human chromosome 16 creatine transporter (SLC6A8) and (CDM) peralogous genes, complete cds	Homo sapiens chromosome 21 segment HS21C080	xk07c12.x1 NCi_CGAP_Co20 Homo sapiens cDNA clone IMAGE.2666038 3'	Human gamma-glutamy transpeptidase mRNA, complete cds	601500405F1 NIH_MGC_70 Homo saplens cDNA clone IMAGE:3902305 5'	601500405F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3902305 5'	Homo sapiens mRNA for KIAA0235 protein, partial cds	Homo sapiens nucleolar protein (KKE/D repeat) (NOP56) mRNA	Homo saplens mRNA for pregnancy-associated plasma protein-E (PAPPE gene)	601485388F1 NIH_MGC_69 Home saplens cDNA clone IMAGE:3887876 5'	Homo saplens phosphatidylinositol 4-kinase 230 (pi4K230) mRNA, complete cds	Homo saplens bone morphogenetic protein 8 (osteogenic protein 2) (BMP8) mRNA	Homo sapiens bane morphogenetic protein 8 (osteogenic protein 2) (BMP8) mRNA	AU134991 PLACE1 Homo sapiens cDNA clone PLACE1000965 5'	Homo sapiens promyelocytic leukemia zinc finger protein (PLZF) gene, complete cds
Top Hit Database Source	EST_HUMAN	EST_HUMAN	FAT HIMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST_HUMAN	LN L	EST_HUMAN	EST_HUMAN	EST HUMAN	EST HUMAN	LN	NT	EST_HUMAN	EST_HUMAN	LN	Ł	EST_HUMAN	IN	EST_HUMAN	EST_HUMAN	LN	LN.	LN	EST_HUMAN	LN	IN	NT	EST_HUMAN	N-I
Top Hit Acession No.	1.0E-102 BE388063.1	1.0E-102 BE388063.1	E-102 A1782859 1	E-102 AV755842 1	E-102 T70393.1	E-102 T70393.1	E-102 AU124629.1	E-102 AF153715.1	1.0E-102 A 1905037.1	E-102 Al905037.1	E-102 AA970786.1	E-102 BE897468.1	4507822 NT	4507822 NT	1.0E-102 AA868675.1	1.0E-102[BF359243.1	J41302.1	E-102 AL163280.2	1.0E-102 AW300862.1	E-102 J05235.1	E-103 BE908158.1	E-103 BE908158.1	E-103 D87078.2	5453793 NT	1.0E-103 AJ278348.1	E-103 BE877541.1	E-103 AF012872.1	4502428 NT	2428		1.0E-103 AF080568.1
Most Similar (Top) Hit BLAST E Value	1.0E-102	1.0E-102	1 0E-102	1 0E-102	1.0E-102	1.0E-102	1.0E-102	1.0E-102	1.0E-102	1.0E-102	1.0E-102	1.0E-102	1.0E-102	1.0E-102	1.0E-102	1.0E-102	1.0E-102 U41302.1	1.0E-102	1.0E-102	1.0E-102	1.0E-103	1.0E-103	1.0E-103	1.0E-103	1.0E-103	1.0E-103	1.0E-103	1.0E-103	1.0E-103	1.0E-103	1.0E-103
Expression Signal	0.75	0.75	0.57	0.76	2.15	2.15	3.3	0.54	3.54	3.54	1.58	1.83	6.26	6.26	1.54	3.6	3.68	8.01	6.97	1.79	2.49	2.49	8.29	2.74	0.82	10.5	2.26	1.43	1.43	1	1.88
ORF SEQ ID NO:	34324	34325	34608	34666	34719	34720	34796		35851	35852	35916	36486	36490	36491	36756	36790	37076		30931		25229	25230						27163			27632
Exan SEQ ID NO:	21400	21400	21752		1	1	21846	22779	_	22859	22916	<u> </u>		23467	23705	23735	24003	24105	24471	24681	12751	12751	12780	12883			14232	14600	1	1	15058
Probe SEQ ID NO:	8861	8861	9175	9205	9245	9245	9332	10284	10365	10365	10422	10949	10952	10952	11200	11282	11555	11689	12261	12588	73	73	104	222	1017	1286	1640	2018	2018	2343	2494

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					DIRIIO	EAUL LIDEA	Single Exol Plotes Explassed in Petal Live
Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
2631	15192	27762	1,54	1.0E-103	1.0E-103 BF529379.1	EST_HUMAN	602041882F1 NCI_CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4179429 5'
2631	15192			1.0E-103	1.0E-103 BF528379.1	EST_HUMAN	602041882F1 NCI_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4179429 5'
3105	15720		2.9	1.0E-103	1.0E-103 BE744722.1	EST_HUMAN	801573113F1 NIH_MGC_9 Hamo sapiens cDNA clone IMAGE:3834315 5
3428	Ĺ	28514	3.71	1.0E-103	1.0E-103 AW 298245.1	EST_HUMAN	UI-H-BW0-ajt-h-11-0-UI.s1 NCI_CGAP_Sub6 Homo sapiens cDNA clone IMAGE:2733165 3'
3487	L		1.19	1.0E-103	1.0E-103 AB040892.1	LN	Homo sapiens mRNA for KIAA1459 protein, partial cds
3818	16418		6.77	1.0E-103	1.0E-103 AF023861.1	LN	Macaca mulatta cyclophilin A mRNA, complete cds
3861	16459	28923	1.17	1.0E-103	1.0E-103 AA485663.1	EST HUMAN	ab10d12.s1 Stratagene lung (#937210) Homo sapiens cDNA clone IMAGE:840407 3' similar to contains element LTR10 repetitive element;
4075	L		3.62	1.0E-103	1.0E-103 T 23683.1	EST_HUMAN	seq340 b4HB3MA-Cot109+10-Bio Homo sapiens cDNA clone b4HB3MA-Cot109+10-Bio-7 3'
4946	_	29963	89'0	1.0E-103	1.0E-103 BE900203.1	EST_HUMAN	601673135F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3955953 5'
6091	18707	31455		1.0E-103	1.0E-103 BF569527.1	EST_HUMAN	602186023F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4310573 5'
6097	18713	31463	1.8	1.0E-103	1.0E-103 AF179995.1	TN	Homo sapiens septin 2 (SEP2) mRNA, partial cds
6413	19016	31798	12.0	1.0E-103	11435053 NT	Ę	Homo sapiens KiAA0440 protein (KIAA0440), mRNA
6413	19016	31799	12'0	1.0E-103	11435053 NT	F	Homo sapiens KIAA0440 prolein (KIAA0440), mRNA
6587	19184	31985		1.0E-103	1.0E-103 AW954568.1	EST_HUMAN	EST366336 MAGE resequences, MAGC Hamo sapiens cDNA
6587	19184	31986	0.78	1.0E-103	1.0E-103 AW954568.1	EST_HUMAN	EST366636 MAGE resequences, MAGC Homo saplens cDNA
6707				1.0E-103	1.0E-103 AA781442.1	EST_HUMAN	aj26e03.s1 Scares_testis_NHT Homo saplens cDNA clone 1391452.3'
6743	19337	32142	98'0	1.0E-103	-103 AF053490.1	LΝ	Homo sapiens glycine receptor alpha 2 subunit (GLRA2) gene, exon 4
6819	19409	32227	1.69	1.0E-103	1.0E-103 AI590071.1	EST HUMAN	tm58b05.x1 NCI_CGAP_Brn25 Home sapiens cDNA clone IMAGE:2182289 3' similar to TR:Q13769 Q13769 ANONYMOUS.;
				007	A 1500001 A	14 41 41 41 41 41 41 41 41 41 41 41 41 4	tm58b05.x1 NCI_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2162289 3' similar to TR:Q13769
8	18408	37770	BO:	201-20.1	1.0E-103 A138007 1.1	NAMOR - 63	לינינים לואליני
				_			Homo sapiens dystrophin (muscular dystrophy, Duchenne and Becker types), includes DXS142, DXS164, DXS230, DXS239, DXS239, DXS268, DXS269, DXS270, DXS272 (DMD), transcript variant Dp427m,
6933	18041	30484	1.67	1.0E-103	5032282 NT	Z	MRNA
							Homo sapiens dystrophin (muscular dystrophy, Duchenne and Bocker types), includes DXS142, DXS164, DXS206, DXS230, DXS239, DXS269, DXS260, DXS270 (DMD), transcript variant Dp427m,
6933	18041	30485		1.0E-103	5032282 NT	LN	mRNA
7047	18067	30457	1.07		11431100 NT	NT	Homo sapiens ribosomal protein L3-like (RPL3L), mRNA
7101	19671				1.0E-103 AJ289880.1	ΙN	Homo sapiens KiAA0851 gene (partial), XT3 gene and LZTFL1 gene
7278			1.34	1.0E-103	-103 AW965776.1	EST_HUMAN	EST377849 MAGE resequences, MAGI Homo saplens cDNA
7372	19898	32759	3.38	1.0E-103	-103 BE748158.1	EST_HUMAN	601571537F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:3838545 5
7749	20257	33152	4.44		1.0E-103 AIS90071.1	EST_HUMAN	tm59b05.x1 NCI_CGAP_Bm25 Homo eapiens cDNA clone IMAGE;2162289 3' similar to TR:Q13769 Q13769 ANONYMOUS.;

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7b41f03.x1 NCI_CGAP_Lu24 Homo sepiens cDNA clone IMAGE:3230813 3' similar to gb;M69043 MAJOR 7e68a10.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3287610 3' similar to 7160e03.x1 Sogres_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3525964 3' similar to ol02d06.y5 NCI_CGAP_Lu5 Hamo sapiens cDNA clone IMAGE:1522283 5' similar to TR:062084 Q62084 PHOSPHOLIPASE C NEIGHBORING ; Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3 Homo saplens triple functional domain (PTPRF interacting) (TRIO), mRNA nd13c02.s1 NCI_CGAP_Ov1 Homo sapiens cDNA clone IMAGE:800162 3' similar to gb:L02426 26S PROTEASE SUBUNIT 4 (HUMAN); m58b05.x1 NCI_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:21622893' similar to TR:Q13769 EST375749 MAGE resequences, MAGH Homo sapiens cDNA alone IMAGE:2518326 5' similar to au51g04.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2518326 5' similar to ae94d12.s1 Strategene schizo brain S11 Homo saptens dDNA cione IMAGE:9708713' similar to gb:X03747_cds1 SODIUM/POTASSIUM-TRANSPORTING ATPASE BETA-1 (HUMAN); DKFZp584H1072_r1 564 (synonym: hfbr2) Homo sapiens cDNA clone DKFZp584H1072 5' DKFZp584H1072_r1 564 (synonym: hfbr2) Homo sapiens cDNA clone DKFZp564H1072 5' H.sapiens mRNA for latent transforming growth factor-beta binding protein (LTBP-2) HISTOCOMPATIBILITY COMPLEX ENHANCER-BINDING PROTEIN (HUMAN). Homo saplens triple functional domain (PTPRF interacting) (TRIO), mRNA SW:PTNF_HUMAN Q16825 PROTEIN-TYROSINE PHOSPHATASE D1 AU140344 PLACE2 Homo sapiens cDNA clone PLACE2000374 5' AU140344 PLACE2 Homo sapiens cDNA clone PLACE2000374 5' Homo sapiens polycystic kidney disease (PKD1) gene, exons 27-30 Homo sapiens hypothetical protein FLJ20454 (FLJ20454), mRNA Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3 AU136283 PLACE1 Homo sapiens cDNA clone PLACE1003923 Top Hit Descriptor Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3 Homo sapiens AXL receptor tyrosine kinase (AXL), mRNA Homo sapiens AXL receptor tyrosine kinase (AXL), mRNA contains MER29.t3 MER29 repetitive element Homo sapiens gene for AF-6, complete cds TR:015046 015046 KIAA0338; (UBE2D3) genes, complete cds Q13769 ANONYMOUS. EST HUMAN EST_HUMAN EST_HUMAN **EST HUMAN** EST_HUMAN HUMAN EST_HUMAN EST_HUMAN EST_HUMAN HUMAN EST_HUMAN EST HUMAN EST_HUMAN Top Hit Database Source EST EST ż È ż 눋 z 6005921 6005921 Top Hit Acession 11424061 11424061 11526291 1.0E-103 AU140344.1 1.0E-103 AU140344.1 1.0E-104 AL037549.3 1.0E-103 BF109244.1 1.0E-103 AA581086.1 1.0E-103 AA774980.1 .0E-103 BE644611.1 AB011399.1 1.0E-104 AL037549.3 1.0E-103 AI590071.1 1.0E-103 AI878956.1 1.0E-103 AI792759.1 1.0E-103 AF224669.1 BE549706. 1.0E-103 AF149773. AF149773. 1.0E-103 L43610.1 237976.1 1.0E-103 1.0E-103 1.0E-103 1.0E-103 1.0E-103 1.0E-103 (Top) Hit BLAST E <u>1</u> 1.13 1.06 1.55 9.08 8 3.46 2.21 3.66 1.91 44.4 4.36 2.23 8 5.36 4.81 Expression Signal ORF SEQ ID NO: 34095 31010 25398 34015 34018 34502 34544 34594 35621 38089 36156 36267 36839 37103 35497 21176 22465 23783 12914 SEQ ID 20257 21095 21573 21612 21653 22632 23059 23145 23251 24033 24101 12914 22506 23241 ġ 25 25 Probe SEQ ID 8556 8556 8637 9036 8075 9117 9970 10137 10612 10713 10713 10724 11590 11684 11916 10521 11320 1001 Ö

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Table 4
Single Exon Probes Expressed in Fetal Liver

Single Exon Probes Expressed in Fetal Liver	Top Hit Descriptor	Hamo sapiens Trio isoform mRNA, camplete cds	IL3-HT0619-080900-249-F07 HT0619 Homo sapiens cDNA	IL3-HT0619-080900-249-F07 HT0619 Homo sapiens cDNA	xd76d02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2603523.3' similar to TR:Q24116 Q24116 HYPOTHETICAL 29.4 KD PROTEIN.	vd76402.x1 Soares_NRT_GBC_S1 Homo sapiens cDNA clone IMAGE:2603523 3' similar to TR:Q24116 Q24116 HYPOTHETICAL 29,4 KD PROTEIN.	Homo sapiens histone acetyltransferase MORF mRNA, complete cds	601581503F1 NIH MGC 7 Homo sapiens cDNA clone IMAGE:3935977 5	601581503F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3935977 5'	AV728070 HTC Homo sapiens cDNA clone HTCBYA07 5'	AU130765 NT2RP3 Homo sapiens cDNA clone NT2RP3001398 5'	Human beta4-integrin (ITGB4) gene, exons 19,20,21,22,23,24 and 25	Homo sapiens KIAA0649 gene product (KIAA0649), mRNA	RC0-HT0885-310700-021-b09 HT0886 Homo sapiens cDNA	RC0-HT0885-310700-021-b09 HT0885 Homo sapiens cDNA	602141215F1 NIH MGC 46 Hamo septens cDNA clane IMAGE:4302507 5	801312181F1 NIH_MGC_44 Homo sepiens cDNA clone IMAGE:3658676 5'	Homo sepiens amyloid bela (A4) precursor protein (protease navin. II Atheimer Aisease) (ADD)	Homo sapiens Meist (mouse) hamolog (MEISt) mRNA	Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds	Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds	Hamo sapiens mRNA for cyclin B2, complete cds	Hamo sapiens chromosome 21 segment HS21C080	Human mRNA for KIAA0128 gene, partial cds	EST20609 Spleen I Hamo sapiens cDNA 5' end similar to autoimmune antiden Ku. p70/p80 subunit	no10d05.s1 NCI_CGAP_Phe1 Homo sapiens cDNA clone IMAGE:11002653'	Homo sapiens 959 kb conlig between AML1 and CBR1 on chromosome 21q22; segment 1/3	Hamo sapiens branodomain adjacent to zinc finger domain, 2B (BAZ2B), mRNA	Homo sapiens bromodomain adjacent to zinc finger domain, 2B (BAZ2B), mRNA	EST373761 MAGE resequences, MAGG Homo sapiens cDNA	601445823F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3850156 5	801445823F1 NIH_MGC_65 Homo sapiens cDNA clane IMAGE:3850156 5
Exon Probe	Top Hit Database Source	N FN	EST HUMAN	EST_HUMAN	EST_HUMAN	EST HUMAN		EST HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	۲	LN LN	EST_HUMAN	EST HUMAN	EST HUMAN	EST_HUMAN	LΝ	IN	ΡN	TN	IN	IN	LN.	EST_HUMAN	EST_HUMAN	ΙΝ	NT	NT	EST_HUMAN	EST_HUMAN	EST HUMAN
Single	Top Hit Acession No.	104 AF091395.1	104 BF352841.1	104 BF352841.1	104 AW 103848.1	104 AW 103848.1	104 AF113514.1	104 BE791713.1	104 BE791713.1	-104 AV728070.1	AU130765.1	104 U66535.1	11427757 NT		104 BE720191.1	104 BF684288.1		4502166 NT	4505150 NT	105 AF032897.1	105 AF032897.1	105 AB020981.1	105 AL 163280.2	105 D50918.1	105 AA318369.1	105 AA584808.1	105 AJ229041.1	7304922 NT	7304922 NT	105 AW961688.1	105 BE868881.1	105 BE868881.1
	Most Similar (Top) Hit BLAST E Value	1.0E-104	1.0E-104	1.0E-104	1.0E-104	1.0E-104		1.0E-104	1.0E-104	1.0E-104	1.0E-104	1.0E-104	1.0E-104	1.0E-104	1.0E-104	1.0E-104	1.0E-104	1.0E-105	1.0E-105	1.0E-105	1.0E-105	1.0E-105			1.0E-105		1.0E-105	1.0E-105	1.0E-105	1.0E-105		1.0E-105
	Expression Signal	4.74	4.6	4.6	0.69	0.60	0.54	3.86	3.86	1.05	4.98	3.94	1.04	2.44	2.44	5.34	2.58	2.78	15.84	5.78	5.78	1.84	1.35	1.24	1.36	1.43	3.35	0.72	0.72	2.65	0.65	0.65
	ORF SEQ ID NO:	34711	33201	33202	35142	35143	35336	35490	35491	35783	35827	35949		36728	36729	36766		25445	25135	25720	25721		27004	27110	27379			28482	28483	29212	29881	29882
	Exon SEQ ID NO:		20301		22167	22167		22500								23712	24648	15384	12679	13247	13247	14311	14447	14554	14806	15302	15655	16002	16002	16764	17431	17431
	Probe SEQ ID NO:	9238	9362	9362	8996 8	8996	9858	10005	10005	10299	10338	10445	10457	11176	11176	11208	12538	300	450	620	83	1719	1859	1970	2231	2747	3039	3394	3394	4173	4853	4853

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					,		
Probe E SEQ ID SE NO:	SEQ ID ORI	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
4874	17449	29900	1.06	1.0E-105	105 AA699335.1	EST_HUMAN	zi44g02.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:433682 3
5073	17848		4.94	1.0E-105	105 AL163208.2	NT	Homo sapiens chromosome 21 segment HS21C008
L	18165	30579	26.0	1.0E-105	105 AF016704.1	LN.	Homo saplens E6-AP ublquitin-protein ligase (UBE3A) gene, exon 2
	18224		1.12	1.0E-105	11420134 NT	NT	Homo sapiens Retina-derived POU-domain factor-1 (RPF-1), mRNA
	19483	32303	1.68	1.0E-105		EST_HUMAN	601901028F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4130334 5'
	19483	32304	1.68	1.0E-105	105 BF314302.1	EST_HUMAN	801901028F1 NIH_MGC_19 Homo saplens cDNA clone IMAGE:4130334 5'
	18077	30430	3.65	1.0E-105	11419198 NT	NT	Homo sapiens GTPase activating protein-like (GAPL), mRNA
7058	18077	30431	3.65	1.0E-105	11419196 NT	NT	Homo sapiens GTPase activating protein-like (GAPL), mRNA
L.,	19855	32718	1.09	1.0E-105	105 BE902616.1	EST_HUMAN	801677279F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3990019 5
	20343	33252	0.87	1.0E-105	105 X12556.1	NT	Human mRNA for dbl proto-oncogene
7971	20513	33420	5.86	1.0E-105	05 T05087.1	EST_HUMAN	EST02975 Fetal brain, Stratagene (cat#536206) Homo sapiens cDNA clone HFBCR32
	20878	33789	1.43	1.0E-105	105 AW007194.1	EST HUMAN	ws50c10.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2500626 3' similar to Sw:ACSA_PENCH P38333 ACETYL-COENZYME A SYNTHETASE ;
8858	21397	34320	0.75		105 AW840817.1	EST_HUMAN	RC1-CN0008-070100-011-e05 CN0008 Homo sapiens cDNA
	21518	34444	2.92	1.0E-105	105 AW016879.1	EST_HUMAN	UI-H-Bl0p-abi-b-12-0-UI.s1 NCI_CGAP_Sub2 Homo sapiens cDNA clone IMAGE:2711782 3'
	21666	34606	0.87	1.0E-105	105 AW882372.1	EST_HUMAN	QV2-0T0062-140300-083-d09 OT0082 Homo sapiens cDNA
	21666	34607	0.87	1.0E-105	105 AW882372.1	EST_HUMAN	QV2-OT0062-140300-083-d09 OT0082 Homo sapiens cDNA
9487	21944	34891	1.07		105 BE867793.1	EST_HUMAN	601443755F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847884 5
9487	21944	34892	1.07	1.0E-105	105 BE867793.1	EST_HUMAN	601443735F1 NIH_MGC_65 Homo saptens cDNA clone IMAGE:3847884 5
ᆫ	23334	38347	6.07	1.0E-105	105 AF254822.1	LN T	Homo sapiens SMARCA4 isoform (SMARCA4) gene, complete cds, alternatively spliced
	23619	36660	2.15		05 D63548.1	NT	Homo sapiens COL4A6 gene for a6(IV) collagen, exon 31
11181	23668	36713	2.07	1.0E-105	7705938 NT	NT	Homo sapiens Ran binding protein 11 (LOC51194), mRNA
11457	23907	36974	2.56	1.0E-1	105 AW027554.1	EST_HUMAN	wv74f07.x1 Soares_thymus_NHFTh Homo sapiens cDNA clone IMAGE:2535301 3' similar to TR:P87892 P87892 PROTEASE;
	23972	37042	1.62	1.0E	105 BF430921.1	EST HUMAN	7o18c10.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3574291 3' similar to TR:P97680 P97680 RIN1.;
L	12692	25148	2.29	1 OE	106 Al904483.1	EST HUMAN	IL-BT057-281198-001 BT057 Homo sapiens cDNA
	12825		1.55		106 AW503208.1	EST_HUMAN	UI-HF-BN0-akt-g-07-0-UI.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078348 5
L	12880	25366	1.75	1.0E-		EST_HUMAN	tq79c01.x1 NCI_CGAP_Ut1 Homo sapiens cDNA clone IMAGE:2215008 3'
	13198	25678	1.82	1.0E	98.1	EST_HUMAN	EST377629 MAGE resequences, MAGI Homo sapiens cDNA
633	13258	25733	2.3	-30.1	106 J00148.1	۲	Human dihydrofolate reductase pseudogene (psi-hd1)
	13258	25733	3.03		106 J00146.1	N	Human dihydrofolate reductase pseudogene (psl-hd1)
	14165	26696	1.57	1 06-	106 AF145712.1	۲	Homo sapiens soluble neuropilin-1 mRNA, complete cds
1739	14329	26873	4.72	1.0	106 U48724.1	N	Human epidermal growth factor receptor (EGFR) precursor-mRNA, exon 4, partial cds

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Single Exoli Probes Expressed in Fetal Liver	Top Hit Descriptor	Homo sapiens type IV collagen alpha 5 chain (COL4A5) gene exon 41	ng41c05.s1 NCI_CGAP_Co3 Homo sepiens cDNA clone IMAGE:937352 3' similar to contains element LTR3 repetitive element :	ng41cd5.s1 NCI_CGAP_Co3 Homo sapiens cDNA clone IMAGE:937352 3' similar to contains element LTR3 recettive element :	MR0-HT0165-140200-008-d10 HT0165 Homo saniens cDNA	Homo sapiens glutathione S-transferase theta 1 (GSTT1) mRNA	601149783F1 NIH MGC 19 Homo sabiens cDNA close IMAGE 3502461 5	qi76h10 x1 Soares NhHMPu S1 Homo sapiens cDNA clone IMAGE 1878307 3	Homo sapiens glutathione S-transferase theta 1 (GSTT1) mRNA	Homo sapiens glutathlone S-transferase theta 1 (GSTT1), mRNA	601272675F1 NIH MGC 20 Homo sabiens cDNA clone IMAGE 3613818 5	Homo sapiens mRNA for KIAA1326 protein, partial cds	Homo sapiens mRNA for KIAA1326 protein partial cds	Homo sapiens hypothetical protein FLJ11273 (FLJ11273), mRNA	Homo sapiens hypothetical protein FLJ11273 (FLJ11273), mRNA	Homo sapiens gene for activin receptor type IIB. complete cds	Homo sapiens mRNA for KIAA1278 protein, partial cds	Homo sapiens mRNA for KIAA 1278 protein, partial cds	EST386875 MAGE resequences, MAGN Homo sapiens cDNA	EST386875 MAGE resequences, MAGN Homo sapiens cDNA	MR0-HT0165-140200-008-d10 HT0165 Homo sapiens cDNA	(QC*IS)=vitamin D-binding protein/group specific component [human, peripheral blood leukocytes, Genomic,	Z120 rt, segment 5 of 9J	aj24b09.s1 Soares_testis_NHT Homo sapiens cDNA clone 1391225.3' similar to gb:X12433 PROTEIN PHPS1-2 (HUMAN);	AU130113 NT2RP3 Homo sapiens cDNA clone NT2RP3000274 5	AU130113 NT2RP3 Homo sapiens cDNA clone NT2RP3000274 5/	AU143428 Y79AA1 Homo sapiens cDNA clone Y79AA1001912 5'	AU143428 Y79AA1 Homo sapiens cDNA clone Y79AA1001912 5'	602154012F1 NIH_MGC 83 Homo sapiens cDNA clone IMAGE:4295067 5	601439670F1 NIH_MGC_72 Homo saplens cDNA clone IMAGE:3924641 5	Homo sapiens xylosytransferase II (XT2), mRNA	Homo sapiens xylosyltransferase II (XT2), mRNA
EVOIL LIGHES E.	Top Hit Database Source	N F	EST_HUMAN LT		HUMAN		HUMAN	Γ			EST HUMAN 60		NT IN			NT HO	NT H	와 보	T HUMAN	Г	EST_HUMAN MF		17	est_HUMAN PH		Г	Γ	EST HUMAN AU	I			
algino.	Top Hit Acession No.	06 U04510.1	106 AA527446.1			4504184 NT	106 BE260201.1	Γ	106 4504184 NT	4504184 NT	106 BE384296.1		06 AB037747.1	8922965 NT	8922965 NT	06 AB008681.1	06 AB033104.1	06 AB033104.1	Γ				100 307479.1			06 AU130113.1	06 AU143428.1		06 BF679574.1	06 BE897112.1	11545913 NT	11545913 NT
	Most Similar (Top) Hit BLAST E Value	1.0E-106	1.0E-106	1.0E-106	1.0E-106	1.0E-106	1.0E-106	1.0E-106	1.0E-106	1.0E-106	1.0E-106	1.0E-106	1.0E-106	1.0E-106	1.0E-106	1.0E-106	1.0E-106	1.0E-106	1.0E-106	1.0E-106	1.0E-106	907	1.00-100	1.0E-106	1.0E-106	1.0E-106	1.0E-106	1.0E-106	1.0E-106	1.0E-106	1.0E-106	1.0E-106
	Expression Signal	0.89	5.32	5.32	2.48	3.35	1.49	6.69	1.52	1.52	0.98	6.37	6.37	2.04	2.04	0.72	1.14	1.14	90.6	90.6	1.47	a	2	2.76	0.67	0.67	0.82	0.82	13.05	89.0	19.14	19.14
	ORF SEQ ID NO:	26892	26978	26979	27313	27501	27769	27910	26609	26810	27985	28063	28064	28303	28304	28509	28565	28566	29158	29159	29732	30300	88000	30653	31375	31376	31517	31518	31631	31738	31945	31946
	Exon SEQ ID NO:	14347	14427	14427	14744					. 1									16705	16705	17288	17007	3	18203	18636	18636	18759	18759	18859	18960	19149	19149
	Probe SEQ ID NO:	1757	1839	1839	2167	2356	2636	2788	2852	2852	2890	396 8	2968	3214	3214	3420	3488	3488	4111	4111	4706	5438		5572	6017	6017	8145	6145	6250	6355	6551	6551

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au91105.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2783649 5' similar to TR:O75834 ae72e07.s.1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:989732 3' similar to gb.X85873 KINESIN HEAVY CHAIN (HUMAN); h62a65.x1 NCI_CGAP_Kid11 Home sapiens cDNA clone IMAGE:2283632 3' similar to SW:ICA6_HUMAN Q05084 69 KD ISLET CELL AUTOANTIGEN ; cn03a04.y1 Normal Hurnan Trabecular Bone Cells Homo sapiens cDNA clone NHTBC_cn03a04 random m41f02.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2160699 3' similar to contains MSR1.t3 tm41f02.x1 NCI_CGAP_Kid11 Homo sepiens cDNA clone IMAGE:2160699 3' similar to contains MSR1.t3 wu38c03.x1 Soares_Dieckgraefe_colon_NHCD Homo sapiens cDNA clone IMAGE:2522308 3' similar to TR:070273 070273 ETS HOMOLOGOUS FACTOR; ar68e07.x1 Barstead acrta HPLRB6 Homo sapiens cDNA clone IMAGE:21277323' similar to gb:X06233 GM4-LT0059-150200-098-c06 LT0059 Homo sapiens cDNA

0087-608.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1354790 3'

0087-608.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1354790 3' 801105736F1 NIH_MGC_15 Hamo sapiens cDNA clane IMAGE: 2988345 5 801282717F1 NIH_MGC_44 Homo sapiens cDNA clone iMAGE:3604493 5' 601282717F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3804493 5 601282367F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604217 5' 601671874F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3954403 5' 601671674F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3954403 5 np57b10.s1 NCI_CGAP_Br2 Homo sapiens cDNA clone IMAGE:1130395 3 601594331F1 NIH_MGC_9 Hamo sapiens cDNA clone IMAGE:3948463 5' 601594331F1 NIH_MGC_9 Hamo sapiens cDNA clone IMAGE:3948463 5' np57b10.s1 NCI_CGAP_Br2 Homo saplens cDNA clone IMAGE:1130395 RC0-CT0318-201199-031-a11 CT0318 Homo saplens cDNA Top Hit Descriptor Homo saplens XPMC2 protein (LOC57109), mRNA Homo sapiens sorting nexin 11 (SNX11), mRNA Homo sapiens sorting nexin 11 (SNX11), mRNA Homo sapiens multimedin (MMRN), mRNA TAR1 PTR5 repetitive element; TAR1 PTR5 repetitive element; CALGRANULIN B (HUMAN); 075834 CULLIN-4A EST_HUMAN EST_HUMAN EST_HUMAN EST_HUMAN EST_HUMAN EST_HUMAN EST_HUMAN EST_HUMAN EST_HUMAN **EST_HUMAN** EST_HUMAN EST_HUMAN EST_HUMAN EST_HUMAN EST_HUMAN EST_HUMAN EST HUMAN EST_HUMAN EST_HUMAN EST HUMAN HUMAN EST_HUMAN Top Hit Database Source EST 11425503 NT 11425503 NT 11429617 Top Hit Acession .0E-106 AW 163047.1 1.0E-106 AW363299.1 AW838831.1 1.0E-106 AA604417.1 1.0E-106 BF027310.1 1.0E-106 BE741408.1 1.0E-106 BE741408.1 AA604417.1 1.0E-106 AA663779.1 1.0E-106 AA825307. 1.0E-106 AI750447.1 1.0E-106 AI479569.1 1.0E-106 AI523066.1 1.0E-106 BE387950. .0E-106 AI654123.1 AA825307. 1.0E-106 AI479569.1 ģ BE387950. 1.0E-106 A1991 109.1 .0E-106 1.0E-106/ .0E-106 1.0E-106 1.0E-106 106 1.0E-108 1.0E-106 1.0E-106 (Top) Hit BLAST E 6 13.65 2.03 4.48 1,47 1.47 8.16 1.56 8 0.72 5.97 0.74 56 8.75 8.75 Expression Signal 33376 34542 34815 35385 35479 35480 35624 35625 35672 35677 33175 34022 34099 34670 32842 32901 32995 33565 34023 34103 34543 34814 ORF SEQ Ö S O 22685 20118 20656 21103 22634 22680 20035 20119 20277 20468 21103 21184 21611 21727 21884 21864 22491 19931 22491 SEQ ID 19977 2161 ö 10180 7769 8115 8640 8982 9210 9350 9350 9913 9666 866 10139 10139 10185 9074 7406 7453 7514 7606 8564 9074 SEQ ID 7926 7928 7606

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Probe SEQ ID NO:	SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acesslan No.	Top Hit Database Source	Top Hit Descriptor
10198	22685	35678	77.0	1.0E-106	11436432 NT	L'N	Homo sapiens multimerin (MMRN), mRNA
10358	22852	35846	0.45	1.0E-106		EST_HUMAN	DKFZp434F0712_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434F0712 5'
10472	22966		3.31	1.0E-106 /		N	Homo sapiens chromosome 21 segment HS21C002
10775	23299		6.85	1.0E-106	E-106 BF032755.1	EST_HUMAN	801453461F1 NIH_MGC_66 Hamo sapiens cDNA clone IMAGE:3857366 5
10775	23299	36305	6.85	1.0E-106	E-106 BF032755.1	EST_HUMAN	801453461F1 NIH_MGC_66 Hamo sapiens cDNA clane IMAGE:3857366 5
10941	23457			1.0E-106	E-106 J05200 1	TN	Human ryanodine receptor mRNA, complete cds
10941	23457			1.0E-106 J05200.1	J05200.1	LZ	Human ryanodine receptor mRNA, complete cds
11286	23739			1.0E-106	1.0E-106 BE257385.1	EST_HUMAN	601109219F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3349997 5'
11418	23869		1.83	1.0E-106	1.0E-106 BE010882.1	EST_HUMAN	RC5-BN0192-100500-021-B02 BN0192 Hamo sapiens cDNA
11418	23869	36930	1.83	1.0E-106	E-106 BE010882.1	EST_HUMAN	RC5-BN0192-100500-021-B02 BN0192 Hamo sapiens cDNA
11762	24867			1.0	E-106 AW410405.1	EST_HUMAN	fh05h11.x1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE.2961644 5'
11991	24301		£0.4	1.0	E-106 BE894488.1	EST_HUMAN	601433087F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3918524 5'
11991	24301	30987	4.03		1.0E-106 BE894488.1	EST_HUMAN	601433087F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3918524 5'
12216	24439		3.44	1.0	E-106 BE695905.1	EST_HUMAN	RC1-C10249-090800-024-d05 C10249 Homo sapiens cDNA
255	12915		2.78	1.0	E-107 AJ271735.1	FX	Homo sapiens Xq pseudoautosomal region; segment 1/2
286	12942		1.25	1.0		LN	Human IFNAR gene for Interferon alpha/beta receptor
658	13281		1.82	1.0E-107 /	E-107 AF155103.1	LΝ	Homo sapiens NY-REN-25 antigen mRNA, partial cds
846	13462		1.45	1.0E-107	E-107 X60459.1	N-	Human IFNAR gene for interferon alpha/beta receptor
919	13532	26050	2.27	1.0E-107 X50459.1	X60459.1	NT	Human IFNAR gene for interferon alpha/beta receptor
1004	13615	26129	8.14	1.0E-107	-	Ę	Homo saplens sodium-dependent high-effinity dizarboxylate transporter (NADC3) mRNA, complete cds
1321	13915	26437	1.33	1.0E-107		Ę	Homo sapiens BAZ18 mRNA for bromodomain adjacent to zinc finger domain 18, complete cds
1615	14208	26741		1.0E-107	1.0E-107 BF087405.1	EST_HUMAN	QV2-HT0540-120900-358-e05 HT0540 Homo sapiens cDNA
1788	14378		2.7	1.0E-107		LN	Homo sapiens cathepsin Z precursor (CTSZ) gene, exon 3
1880	14486		0.89	1.0E-107	1.0E-107 AB007922.2	LN	Homo sapiens mRNA for KIAA0453 protein, partial cds
1890	14486		0.89	1.0E-107	2.2	NT	Homo sapiens mRNA for KIAA0453 protein, partial cds
2249	14823		1.17	1.0E-107	E-107 U13729.1	NT	Human dipeptidyl peptidase IV (CD26) gene, exon 20
2400	14968		0.94	1.0E-107	E-107 AW842451.1	EST_HUMAN	PM1-CN0031-190100-001-d03 CN0031 Homo saplens cDNA
2400	14968		٥	1.0	E-107 AW842451.1	EST_HUMAN	PM1-CN0031-190100-001-d03 CN0031 Hamo sapiens cDNA
2572	15135			0.1	E-107 BE732460.1	EST HUMAN	601567619F1 NIH_MGC_21 Hamo sepiens cDNA clane IMAGE:3842309 5
2572	15135		5.5	1.0E-107	E-107 BE732460.1	EST HUMAN	601567619F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3842309 5'
3040	- 1			1.0E-107		EST HUMAN	PM1-CN0031-190100-001-d03 CN0031 Homo saplens cDNA
3040	- 1			1.0	E-107 AW842451.1	EST HUMAN	PM1-CN0031-190100-001-d03 CN0031 Homo saplens cDNA
3134	15748	28217	3.02	1.0E-107	5902097 NT	N	Homo sapiens SMT3 (suppressor of mif two 3, yeast) homolog 2 (SMT3H2), mRNA

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Single Exon Probes Expressed in Petal Liver	Top Hit Descriptor	Homo sapiens myotubularin (MTM1) gene, exon 9	Human apolipoprotein B-100 (apoB) gene, exon 10	Human apolipoprotein B-100 (apoB) gene, exon 10	601442558F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3846494 5'	UI-HF-BN0-alf-c-08-0-UI.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3079310 5	UI-HF-BN0-alf-c-08-0-UI:r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3079310 5'	wh56h04.x1 NCL CGAP_Kid11 Hamo sapiens cDNA clone IMAGE:2384791 3'	AU122489 MAMMA1 Homo sapiens cDNA clone MAMMA1002433 5'	QV1-HT0518-140300-107-c10 HT0516 Homo sapiens cDNA	tg10d06.x1 NCI_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:2108363 3' similar to SW:AACT_DICDI P05095 ALPHA-ACTININ 3, NON MUSCULAR ;	Homo sapiens neuroendocrine specific protein (NSP) gene, exon 4	602123963F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4281039 5'	601068681F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3452829 5	Homo sapiens HSPC049 protein (HSPC049), mRNA	Homo sapiens HSPC049 protein (HSPC049), mRNA	Homo sapiens UDP glycosyltransferase 2 family, polypeptide B11 (UGT2B11) mRNA	2295601.s1 Soares retine N2b4HR Homo septens cDNA clone IMAGE:301944 3' similar to contains THR.b1	Intrigration general; FS 4733 East Missis Home canadas CON 5' and	801177018F1 NIH MGC 17 Home seniese CINA clone IMAGE 4532348 5	Homo sabiens NF2 cene	601671914F1 NIH MGC 20 Homo sapiens cDNA clone IMAGE:3954939 5	tt91e10.x1 NCI_CGAP_Pr28 Homo sapiens cDNA done IMAGE:2248938 3' similar to gb:M14219 BONE PROTEOGLYCAN II PRECURSOR (HUMAN);	tt81e10.x1 NCI_CGAP_Pr29 Homo sepiens cDNA clone IMAGE:2248938 3' similar to gb:M14219 BONE PROTEOCLYCAN II PRECURSOR (HUMAN);	bb25b10.x1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:2863899 3' similar to gb:X53777 60S RIBOSOMAL PROTEIN L23 (HUMAN); gb:J05277 Mouse hexokinase mRNA, complete cds (MOUSE);	Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds	Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds	hi12a11 x1 NCI_CGAP_GU1 Homo septens cDNA clone IMAGE:2972060 3' similar to SW:3BP1_MOUSE P55194 SH3-BINDING PROTEIN 3BP-1.;
Exon Probes c	Top Hit Database Source	I.	T I	I.	EST_HUMAN 6					EST_HUMAN O	EST HUMAN P	Г	EST_HUMAN 6	EST_HUMAN 6					EST HUMAN	Т	Т	- HUMAN				Г	H	EST_HUMAN P
Single	Top Hit Acession No.	1.0E-107 AF020671.1		0E-107 M19816.1	0E-107 BE867469.1		-			0E-107 BE168726.1	0E-107 Al392850.1		1.1	0E-107 BE540550.1	11419701 NT	11419701 NT	4507822 NT		0E-107 AA001415.1	I		_						-
	Most Similar (Top) Hit BLAST E Value	1.0E-107	1.0E-107	1.0E-107	1.0E-107	1.0E-107	1.0E-107	1.0E-107	1.0E-107	1.0E-107	1.0E-107	1.0E-107	1.0E-107	1.0E-107	1.0E-107	1.0E-107	1.0E-107	107	1.05-107	1 05-108	1 OF 108	1.0E-108	1.0E-108	1.0E-108	1.0E-108	1.0E-108	1.0E-108	1.0E-108
	Expression Signal	4.68	1.69	1.69	4.74	1.4	1.4	1.28	0.88	2.05	3.35	2.18	2.39	4.35	4.67	4.67	3.77	;	1.41	1 84	4 88	0.95	9.	19.	3.7	0.73	0.73	\$4.
	ORF SEQ ID NO:	28959			31386					36083		36362					37092		1	28118		27271	}			l	28479	1 1
	Exan SEQ (D NO:	ľ		16570					21909	23070	ŀ	23346	ŀ	23708	23009	23009	24023	1	42054	1	L	L	Į	i i	1	16000		16825
	Probe SEQ ID NO:	3898	3972	3972	9029	7399	7389	7536	8308	10533	10583	10825	10839	11203	11271	11271	11577	00077	1830	8	age	2123	2368	2368	2472	3382	3382	4237

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Top Hit Descriptor	Human hepatocyte nuclear factor 4-alpha gene, exon 2	Human hepatocyte nuclear factor 4-alpha gene, exon 2	Homo sapiens KIAA0187 gene product (KIAA0187), mRNA	UI-HF-BN0-ain-e-04-0-UI.r1 NIH_MGC_50 Hama sapiens cDNA clane IMAGE:3080166 5	Homo sapiens PSN1 gene, alternative transcript	Homo sapiens CCAAT-box-binding transcription factor (CBF2) mRNA	RC0-HT0372-241199-031-d03 HT0372 Homo sapiens cDNA	601444922F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3848980 5	601444922F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3848980 5'	Homo sapiens familial mental retardation protein 2 (FMR2) gene, exon 20	PM4-CT0403-240700-001-c10 CT0403 Homo sapiens cDNA	Homo sapiens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP2 mRNA, complete cds	Homo sapiens FYVE damain-containing dual specificity protein phosphatase FYVE-DSP2 mRNA, complete	spo	Hamo sapiens cavedin-1/-2 locus, Contig1, D7S522, genes CAV2 (exons 1, 2a, and 2b), CAV1 (exons 1 and	(2)	PM4-CT0403-240700-001-c10 CT0403 Homo sepiens cDNA	Homo sapiens E6-AP ubiquitin-protein ligase (UBE3A) gene, exon 4	Homo sapiens E8-AP ubiquitin-protein ligase (UBE3A) gene, exon 4	Homo sapiens G protein-coupled receptor, family C, group 5, member B (GPRC5B), mRNA	Homo sapiens delta-6 fatty acid desaturase (FADSD6) mRNA	601113471F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3354064 5'	602043384F1 NCI_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4181037 5	602043384F1 NCI_CGAP_Brn87 Homo sapiens cDNA clone IMAGE:4181037 5'	Homo sapiens connective itssue growth factor-like protein precursor, mRNA, complete cds	UI-HF-BM0-eds-e-12-0-UI.r1 NIH_MGC_38 Homo sapiens cDNA clone IMAGE:3082878 5	UI-HF-BM0-ads-e-12-0-UI.r1 NIH_MGC_38 Hama sapiens cDNA clone IMAGE:3082878 5'	Homo sapiens ETS-family transcription factor EHF (EHF) mRNA, complete cds	yy35h10.r1 Soares melanocyte 2NbHM Homo sapiens cDNA clone IMAGE:273283 5' similar to PIR:A45773 A45773 kelch protein, long form - fruit fly;	Homo sapiens similar to high-mobility group (nonhistone chromosomal) protein 4 (H. sapiens) (LOC63446), mRNA	601058769F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3445361 5'
Top Hit Database Source	NT	LN	LΝ	EST_HUMAN	IN	LΝ	EST_HUMAN	EST_HUMAN	EST_HUMAN	N	EST_HUMAN	Ę		M		N	EST_HUMAN	N F	占	N	LY.	EST_HUMAN	EST_HUMAN	EST_HUMAN	NT	EST_HUMAN	EST_HUMAN	N	EST HUMAN	ħ	EST_HUMAN
Top Hit Acession No.	08 U72961.1	08 U72961.1	7681979 NT	08 AW 504799.1	08 AJ008005.1	5031624 NT	108 AW384094.1	108 BE869016.1	108 BE869016.1	108 AF012623.1	108 BF334851.1	108 AF264717.1		108 AF284717.1		108 AJ133269.1	108 BF334851.1	108 AF016706.1	108 AF016706.1	11431857 NT	4758333 NT	108 BE252607.1	108 BF528912.1	108 BF528912.1	108 AF083500.1	108 AW 408694.1	108 AW 408694.1	108 AF203977.1	108 N44974.1	11428155 NT	108 BE53527.1
Most Similar (Top) Hit BLAST E Value	1.0E-108	1.0E-108	1.0E-108	1 0E-108 /	1.0E-108 /	1.0E-108	1.0E-108	1.0E-108	1.0E-108	1.0E-108	1.0E-108	1.0E-108		1.0E-108		1.0E-108/	1.0E-108	1.0E-108	1.0E-108	1.0E-108	1.0E-108			1.0E-108	1.0E-108	1.0E-108	1.0E-108	1.0E-108	1.0E-108	1.0E-108	1.0E-108
Expression Signal	1.92	1.92	2.66	0.93	2.16	0.81	1.2	2.98	2.98	0.83	0.88	5.83		5.83		1.16	1.01	0.85	0.85	5.04	3.44	1.67	1.08	1.06	1.77	1.47	1.47	1.08	0.52	0.49	1.87
ORF SEQ ID NO:	29656	29657	29949	30062	30008	30289	30777		30852		31529	31666		31667		31795	31529	32130	L				32903	32904			33510			36004	
Exon SEQ ID NO:	17207	17207	17501	l	l	17880	18297	18344	18344	18701	18766	18896		18896		19012	18766	19326	L	19742		20015	ı	20036	ı	L	ı	21515		L	_
Probe SEQ ID NO:	4624	4824	4926	5044	5084	5318	5670	5718	5718	6084	6153	6288		6288		6409	6488	6732	6732	7211	7465	7492	7516	7516	8008	8058	8028	8977	9015	10501	10547

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Probe	Fxon			Most Similar		1 401	
SEQ ID	0)	ORF SEQ ID NO:	Expression Signal	(Top) Hit BLAST E Value	Top Hit Acessian No.		Top Hit Descriptor
10707				1.0E-108	108 Y12490.1	L	Homo sapiens mRNA for Golgi-associated microtubule-binding protein (GMAP-210)
11151	Ц		4.23	1.0E-108	-108 AW966185.1	EST_HUMAN	EST378258 MAGE resequences, MAGI Homo sapiens cDNA
11204		36761		1.0E	-108 AV 708790.1	EST_HUMAN	AV708790 ADC Homo saplens cDNA clone ADCAEE03 5
11204			1,81	1.0E	108 AV708790.1	EST_HUMAN	AV708790 ADC Homo sapiens aDNA clone ADCAEE03 5'
11249				1.0E-108	11441485 NT		Homo saplens G protein-coupled receptor 48 (GPR48), mRNA
11305		36857	1.72	1.0E-108	-108 D63539.1	۲	Homo sapiens COL4A8 gene for a6(IV) collagen, exon 23
12005			5.17	1.0E-108	108 AK024447.1	Z	Homo saplens mRNA for FLJ00037 protein, partial cds
12414				1.0E-108	108 BF346356.1	EST_HUMAN	802018571F1 NCI_CGAP_Bm87 Homo sapiens cDNA clone IMAGE:4154297 5'
46				1.0E-109	-109 AW803116.1	EST_HUMAN	LL2-UM0077-260400-079-D06 UM0077 Homo sapiens cDNA
æ			3.04	1.0E-109	109 D86974.1	L	Human mRNA for KIAA0220 gene, partial cds
235				1.0E-109	11422486 NT	ΙN	Homo sapiens hypothetical protein FLJ11318 (FLJ11318), mRNA
246				1.0E-109	11438391 NT	¥	Homo sapiens reticulocalbin 1, EF-hand calcium binding domain (RCN1), mRNA
492		25810		1.0E-109	4507712 NT	IN	Homo saplens tetratricopeptide repeat domain 2 (TTC2) mRNA
824		25725		1.0E-109	109 AB023216.1	Ę	Homo saplens mRNA for KIAA0999 protein, partial cds
624		25726	19.67		109 AB023216.1	F	Homo saplens mRNA for KIAA0999 protein, partial cds
1050				1.0E-109	109 AL163249.2	Ę	Homo sapiens chromosome 21 segment HS21C049
1244				1.0E-109	109 M28699.1		Homo sapiens nucleolar phosphoprotein B23 (NPM1) mRNA, complete cds
1245	- 1				109 M28699.1	IN	Homo sapiens nucleolar phosphoprotein B23 (NPM1) mRNA, complete cds
1589				1.0E-109	109 BE293673.1	EST_HUMAN	601186922F2 NIH_MGC_15 Homo saplens cDNA clone IMAGE.2959636 5
1589				1.0E-109	109 BE293673.1	EST_HUMAN	601186922F2 NIH_MGC_15 Homo sapiens cDNA clone IMAGE.2959636 5
1915			3.28	1.0E-109			Homo sapiens mRNA for KIAA0018 protein, partial cds
2283			1.19		1.2		Homo sapiens chromosome 21 segment HS21C084
2282	14866	27441	2.08	1.0E-109	109 Y17123.1	NT	Homo sapiens SNF5/INI1 gene, excn 6
2652	15211	27783	2.86	1.0E-109	109 AI022328.1	EST_HUMAN	ow95a01.x1 Sogres_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:1654536 3' similar to TR:002197 002197 CIRCULATING CATHODIC ANTIGEN.
							ow95e01.x1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:1654536.3' similar to
2652		27784	2.86	1.0E-109 /	109 AI022328.1	T HUMAN	TR:002197 002197 CIRCULATING CATHODIC ANTIGEN.;
3833	15212			1.0E-109	4504206 NT	NT	Homo sapiens guanylate cyclase activator 1A (retina) (GUCA1A) mRNA
3094	15709	28180	88	1 0F-109	109 N85100 1	NAMI IH TRA	J2816F Human fetal heart, Lambda ZAP Express Homo sepiens cDNA clone J2816 5' similar to ZINC FINGER PROTEIN 2NEAS
3435					2.1	Т	CM3-NN0009-190400-150-110 NN0009 Home senions cDNA
3435					Γ	Т	CM3-NN0009-190400-150-f10 NN0009 Home seniens cDNA
3569		28655				Т	Homo sapiens retinol dehydrogenase homolog isoform-1 (RDH) mRNA, complete cds
3909	16508			1.0E-109	109 BE146144.1	EST_HUMAN	MR0-HT0209-110400-108-804 HT0209 Homo sapiens cDNA

Page 434 of 526 Table 4 Single Exon Probes Expressed in Fetal Liver

29264 4.43 1.0E-109 A165417.1 EST HUMAN 29528 2.7 1.0E-109 A504206 NT EST HUMAN 29628 2.7 1.0E-109 R15400.1 EST HUMAN 30069 1.14 1.0E-109 BF673718.1 EST HUMAN 30560 2.6 1.0E-109 BF673718.1 EST HUMAN 31875 0.8 1.0E-109 BF78368.1 EST HUMAN 32869 1.02 1.0E-109 BF78356.1 EST HUMAN 32869 1.02 1.0E-109 BF78356.1 EST HUMAN 32869 4.08 1.0E-109 BF78270.1 EST HUMAN 32869 5.94 1.0E-109 BF78270.1 EST HUMAN 33564 1.0E-109 BF78270.1 EST HUMAN 34126 1.4.1 1.0E-109 BF78270.1 EST HUMAN 34126 1.4.1 1.0E-109 BF78270.1 EST HUMAN 34126 1.4.1 1.0E-109 BF78270.1 EST HUMAN 3442 1.4.1<	5 🚊 🔆		Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
29528 2.7 1.0E-109 4504208 INT 29731 1.18 1.0E-109 R15400.1 EST HUMAN 30069 1.14 1.0E-109 R15400.1 EST HUMAN 30560 2.6 1.0E-109 BF178356.1 EST HUMAN 31448 1.02 1.0E-109 BF178356.1 EST HUMAN 31875 0.8 1.0E-109 BF178356.1 EST HUMAN 32869 4.0B 1.0E-109 BF178356.1 EST HUMAN 32869 4.0B 1.0E-109 BF178356.1 EST HUMAN 32869 4.0B 1.0E-109 BF182707.1 EST HUMAN 33564 1.1 1.0E-109 BF182707.1 EST HUMAN 33569 1.3 1.0E-109 BF182707.1 EST HUMAN 34126 0.5 1.0E-109 BF182707.1 EST HUMAN 34462 1.3 1.0E-109 BF182707.1 EST HUMAN 34462 1.41 1.0E-109 BF182707.1 EST HUMAN 34462 1.3 <td>3816</td> <td></td> <td></td> <td></td> <td></td> <td>EST HUMAN</td> <td>1898906.x1 NCI_CGAP_GC6 Homo sepiens cDNA clone IMAGE:2239330 3' similar to WP:F53A2.8 CE16100:</td>	3816					EST HUMAN	1898906.x1 NCI_CGAP_GC6 Homo sepiens cDNA clone IMAGE:2239330 3' similar to WP:F53A2.8 CE16100:
29731 1.18 1.0E-109 7662083 NT 30069 1.14 1.0E-109 R15400.1 EST HUMAN 30418 0.78 1.0E-109 BF73718.1 EST HUMAN 30560 2.6 1.0E-109 BF77868.1 EST HUMAN 31448 1.02 1.0E-109 BF77868.1 EST HUMAN 31875 0.8 1.0E-109 BF737688.1 EST HUMAN 32869 4.08 1.0E-109 BF74627.1 NT 32869 4.08 1.0E-109 BF787707.1 EST HUMAN 32869 4.08 1.0E-109 BF182707.1 EST HUMAN 33564 1.17 1.0E-109 BF182707.1 EST HUMAN 34569 4.01 1.0E-109 BF182707.1 EST HUMAN 34569 1.27 1.0E-109 BF182707.1 EST HUMAN 34462 1.41 1.0E-109 BF182707.1 EST HUMAN 34462 1.41 1.0E-109 BF182707.1 EST HUMAN 34462	078				4504206	NT	Homo sapiens guanylate cyclase activator 14 (retina) (GUCA1A) mRNA
30069 1.14 1.0E-109 R15400.1 EST HUMAN 30540 2.6 1.0E-109 BF73718.1 EST HUMAN 30550 2.6 1.0E-109 BF778556.1 EST HUMAN 31448 1.02 1.0E-109 BF77856.1 EST HUMAN 31875 0.8 1.0E-109 BF77856.1 EST HUMAN 32869 4.0B 1.0E-109 BF78270.1 BST HUMAN 32869 4.0B 1.0E-109 BF182707.1 EST HUMAN 32869 4.0B 1.0E-109 BF182707.1 EST HUMAN 33564 1.1 1.0E-109 BF182707.1 EST HUMAN 34126 5.94 1.0E-109 BF182707.1 EST HUMAN 34126 1.27 1.0E-109 BF182707.1 EST HUMAN 34126 1.41 1.0E-109 BE787540.1 EST HUMAN 34462 1.82 1.0E-109 BE787540.1 EST HUMAN 34462 1.82 1.0E-109 BE54850.1 EST HUMAN 3446	7287					NT	Homo sapiens KIAA0377 gene product (KIAA0377), mRNA
30418 0.78 1.0E-109 BF673718.1 EST_HUMAN 30550 2.6 1.0E-109 E178356.1 EST_HUMAN 31448 1.0Z 1.0E-109 BE732688.1 EST_HUMAN 31875 0.8 1.0E-109 BE732688.1 EST_HUMAN 32869 4.08 1.0E-109 MZ3442.1 NT 32861 5.94 1.0E-109 BE73277.1 EST_HUMAN 32862 4.08 1.0E-109 BF182707.1 EST_HUMAN 32863 4.08 1.0E-109 BF182707.1 EST_HUMAN 32864 1.1 1.0E-109 BF182707.1 EST_HUMAN 34126 1.2 1.0E-109 BF182707.1 EST_HUMAN 34368 0.57 1.0E-109 BE787540.1 EST_HUMAN 34369 0.57 1.0E-109 BE45672.1 EST_HUMAN 34440 0.54 1.0E-109 BE397088.1 EST_HUMAN 34440 0.54 1.0E-109 BE540809.1 EST_HUMAN 34448 <td>7624</td> <td></td> <td></td> <td></td> <td></td> <td>EST HUMAN</td> <td>ya48e06.r1 Soares infant brain 1NIB Homo sabiens cDNA clone IMAGE 53057 5</td>	7624					EST HUMAN	ya48e06.r1 Soares infant brain 1NIB Homo sabiens cDNA clone IMAGE 53057 5
30560 2.6 1.0E-109 5174622 NT 31448 1.02 1.0E-109 BE178356.1 EST_HUMAN 31875 0.8 1.0E-109 BE178356.1 EST_HUMAN 31876 0.8 1.0E-109 M23442.1 NT 32863 4.08 1.0E-109 BE178356.1 EST_HUMAN 32864 0.95 1.0E-109 BE182707.1 EST_HUMAN 32865 4.08 1.0E-109 BF182707.1 EST_HUMAN 32867 1.17 1.0E-109 BF182707.1 EST_HUMAN 33564 1.17 1.0E-109 BF182707.1 EST_HUMAN 34126 1.17 1.0E-109 BF182707.1 EST_HUMAN 34126 1.1 1.0E-109 BE182707.1 EST_HUMAN 34368 0.57 1.0E-109 BE1878540.1 EST_HUMAN 34369 0.57 1.0E-109 BE397068.1 EST_HUMAN 34369 0.54 1.0E-109 BE397068.1 EST_HUMAN 34480 0.54 1.0E-109 BE540800.1 EST_HUMAN 36200 2.73 1.0E-109 BE540800.1 EST_HUMAN <	3100					EST HUMAN	802136446F1 NIH MGC 83 Homo sapiens cDNA clone IMAGE-4272927 5'
31448 1.02 1.0E-109 BE178356.1 EST HUMAN 31875 0.8 1.0E-109 BE178356.1 EST HUMAN 31876 0.8 1.0E-109 MZ3442.1 NT 32859 4.08 1.0E-109 MZ3442.1 NT 32861 5.94 1.0E-109 BF182707.1 EST HUMAN 32862 5.94 1.0E-109 BF182707.1 EST HUMAN 33887 1.27 1.0E-109 BF182707.1 EST HUMAN 34126 1.17 1.0E-109 BF182707.1 EST HUMAN 34126 1.17 1.0E-109 BF182707.1 EST HUMAN 34126 1.17 1.0E-109 BF182707.1 EST HUMAN 34126 1.1.1 1.0E-109 BF182707.1 EST HUMAN 34126 1.1.1 1.0E-109 BF182707.1 EST HUMAN 34126 1.1.1 1.0E-109 BE1787540.1 EST HUMAN 34283 0.57 1.0E-109 BE1787540.1 EST HUMAN 34283 3.59 1.0E-109 BE397068.1 EST HUMAN 36200 2.73 1.0E-109 BE540809.1 EST HUMAN 36201 2.73 1.0E-109 BE540809.1 EST HUMAN 36202 2.73 1.0E-109 BE540809.1 EST HUMAN 36203 2.73 1.0E-109 BE540809.1 EST HUMAN 36204 2.73 1.0E-109 BE540809.1 EST HUMAN 36205 2.73 1.0E-109 BE540809.1 EST HUMAN 36206 3.559 1.0E-109 BE540809.1 EST HUMAN 36207 2.73 1.0E-109 BE540809.1 EST HUMAN 36208 3.559 1.0E-109 BE540809.1 EST HUMAN 36209 3.559 1.0E-109 BE540809.1 EST HUMAN 36209 3.559 1.0E-109 BE540809.1 EST HUMAN 36503 1.0E-109 BE540809.1 EST HUMAN 36503 1.0E-109 BE540809.1 EST HUMAN 36503 1.0E-109 BE540809.1 EST HUMAN 36503 1.0E-109 BE540809.1 EST HUMAN 36503 1.0E-109 BE540809.1 EST HUMAN 36503 1.0E-109 BE540809.1 EST HUMAN 36503 1.0E-109 BE540809.1 EST HUMAN 36503 1.0E-109 BE540809.1 EST HUMAN 36503 1.0E-109 BE540809.1 EST HUMAN 36503 1.0E-109 BE540809.1 EST HUMAN 36503 1.0E-109 BE540809.1 EST HUMAN 36503 1.0E-109 BE540809.1 EST HUMAN 36503 1.0E-109 BE540809.1 EST HUMAN 36503 1.0E-109 BE540809.1 EST HUMAN	8148		2.6		5174622	N	Homo sapiens placental protein 11 (serine proteinase) (P11) mBNA
31448 1.02 1.0E-109 BF379688.1 EST_HUMAN 31875 0.8 1.0E-109 MZ3442.1 NT 31876 0.8 1.0E-109 MZ3442.1 NT 32876 0.95 1.0E-109 MZ3442.1 NT 32864 4.08 1.0E-109 MF182707.1 EST_HUMAN 32865 5.94 1.0E-109 BF182707.1 EST_HUMAN 33664 1.17 1.0E-109 BF182707.1 EST_HUMAN 34125 5.94 1.0E-109 BF182707.1 EST_HUMAN 34126 1.1 1.0E-109 BF182707.1 EST_HUMAN 34126 1.4.1 1.0E-109 BF182707.1 EST_HUMAN 34126 1.4.1 1.0E-109 BE787540.1 EST_HUMAN 34746 0.57 1.0E-109 BE145672.1 EST_HUMAN 34748 0.54 1.0E-109 BE145672.1 EST_HUMAN 34748 0.54 1.0E-109 BE54080.1 EST_HUMAN 36200 <td< td=""><td>8417</td><td></td><td>1.24</td><td></td><td></td><td>EST HUMAN</td><td>RC1-HT0615-200400-022-d04 HT0615 Homo sabiens cDNA</td></td<>	8417		1.24			EST HUMAN	RC1-HT0615-200400-022-d04 HT0615 Homo sabiens cDNA
31875 0.8 1.0E-109 BE178356.1 EST HUMAN 31876 0.8 1.0E-109 MZ3442.1 NT 32876 0.85 1.0E-109 MZ3442.1 NT 32869 4.08 1.0E-109 ABD46811.1 NT 32861 5.94 1.0E-109 BF182707.1 EST HUMAN 32862 5.94 1.0E-109 BF182707.1 EST HUMAN 33647 1.37 1.0E-109 BF182707.1 EST HUMAN 34126 1.17 1.0E-109 BF78570.1 EST HUMAN 34126 1.4.1 1.0E-109 BE787540.1 EST HUMAN 34368 0.57 1.0E-109 BE787540.1 EST HUMAN 34740 0.54 1.0E-109 BE145672.1 EST HUMAN 34748 0.54 1.0E-109 BE397068.1 EST HUMAN 36201 2.73 1.0E-109 BE540809.1 EST HUMAN 36202 2.73 1.0E-109 BE540809.1 EST HUMAN 36220 <	4756					EST HUMAN	CM1-UT0038-060900-399-h07 (110038 Home september CDNA
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31876 0.8 1.0E-109 M2342.1 INT 32676 0.95 1.0E-109 AB046811.1 INT 32869 4.08 1.0E-109 BF182707.1 EST_HUMAN 32864 5.94 1.0E-109 BF182707.1 EST_HUMAN 32867 5.94 1.0E-109 BF182707.1 EST_HUMAN 33687 1.27 1.0E-109 BF182707.1 EST_HUMAN 34126 1.17 1.0E-109 BF7847.1 EST_HUMAN 34126 1.4.1 1.0E-109 BE787540.1 EST_HUMAN 34368 0.57 1.0E-109 BE787540.1 EST_HUMAN 34426 1.32 1.0E-109 BE787540.1 EST_HUMAN 34428 0.57 1.0E-109 BE787540.1 EST_HUMAN 3442 1.32 1.0E-109 BE397068.1 EST_HUMAN 34483 3.55 1.0E-109 BE540800.1 EST_HUMAN 36201 2.73 1.0E-109 BE540800.1 EST_HUMAN 36220	9092		0.8	1.0E-109	Γ	IN	Human interleukin 4 (IL-4) dene. complete cds
32676 0.95 1.0E-109 AB0468111 INT 32969 4.08 1.0E-109 BF182707.1 EST_HUMAN 32961 5.94 1.0E-109 BF182707.1 EST_HUMAN 32862 1.37 1.0E-109 BF182707.1 EST_HUMAN 33674 1.37 1.0E-109 BF78754.1 INT_HUMAN 34125 1.37 1.0E-109 BE787540.1 EST_HUMAN 34126 1.4.1 1.0E-109 BE787540.1 EST_HUMAN 34263 0.57 1.0E-109 BE787540.1 EST_HUMAN 34747 0.54 1.0E-109 BE145672.1 EST_HUMAN 34748 0.57 1.0E-109 BE397068.1 EST_HUMAN 34863 3.55 1.0E-109 BE540800.1 EST_HUMAN 36200 2.73 1.0E-109 BE540800.1 EST_HUMAN 36220 2.73 1.0E-109 BE540800.1 EST_HUMAN 36386 2 1.0E-109 BE640800.1 EST_HUMAN 363	9092			1.0E-109		LN	Human Interleukin 4 (IL-4) gene complete cds
32959 4.08 1.0E-109 F1432574 INT 32961 5.94 1.0E-109 BF182707.1 EST_HUMAN 32962 5.94 1.0E-109 BF182707.1 EST_HUMAN 33664 1.17 1.0E-109 AR749130.1 EST_HUMAN 3367 1.27 1.0E-109 AR749130.1 EST_HUMAN 34125 1.4.1 1.0E-109 BE787540.1 EST_HUMAN 34268 0.57 1.0E-109 BE787540.1 EST_HUMAN 34747 0.54 1.0E-109 BE145672.1 EST_HUMAN 34748 0.57 1.0E-109 BE145672.1 EST_HUMAN 34863 3.55 1.0E-109 BE397068.1 EST_HUMAN 36200 2.73 1.0E-109 BE540800.1 EST_HUMAN 36220 2.73 1.0E-109 BE540800.1 EST_HUMAN 36386 2 1.0E-109 BE540800.1 EST_HUMAN 36386 2 1.0E-109 BF694080.1 EST_HUMAN 36386 </td <td>9817</td> <td></td> <td></td> <td>1.0E-109</td> <td></td> <td>Į.</td> <td>Homo sapiens mRNA for KIAA1591 protein partial cds</td>	9817			1.0E-109		Į.	Homo sapiens mRNA for KIAA1591 protein partial cds
32961 5.94 1.0E-109 BF182707.1 EST HUMAN 32962 5.94 1.0E-109 BF182707.1 EST HUMAN 33564 1.17 1.0E-109 BF182707.1 EST HUMAN 34125 1.27 1.0E-109 BE787540.1 EST HUMAN 34126 1.4.1 1.0E-109 BE787540.1 EST HUMAN 3428 0.57 1.0E-109 BE1857540.1 EST HUMAN 34747 0.54 1.0E-109 BE1857540.1 EST HUMAN 34748 0.54 1.0E-109 BE397068.1 EST HUMAN 34748 0.54 1.0E-109 BE397068.1 EST HUMAN 36200 2.73 1.0E-109 BE540800.1 EST HUMAN 36201 2.73 1.0E-109 BE540800.1 EST HUMAN 36202 2.73 1.0E-109 BE540800.1 EST HUMAN 36203 2.59 1.0E-109 BF64080.1 EST HUMAN 36204 2.73 1.0E-109 BF64080.1 EST HUMAN 36205 2.73 1.0E-109 BF64080.1 EST HUMAN 36206 2.73 1.0E-109 BF64080.1 EST HUMAN 36207 2.73 1.0E-109 BF64080.1 EST HUMAN 36208 2.73 1.0E-109 BF64080.1 EST HUMAN 36209 2.73 1.0E-109 BF64080.1 EST HUMAN 36209 2.73 1.0E-109 BF64080.1 EST HUMAN 36386 2.84 1.0E-109 BF640831.1 EST HUMAN 36387 2.10E-109 BF640831.1 EST HUMAN 36533 1.95 1.0E-109 AU121370.1 EST HUMAN	0083		4.08		32574	TX.	Homo sapiens A T-binding transcription factor 1 (A TRE1) TONIA
33564 1.0E-109 BF182707.1 EST_HUMAN 33564 1.17 1.0E-109 AN749130.1 EST_HUMAN 34125 1.0E-109 AA77498.1 EST_HUMAN 34126 14.1 1.0E-109 BE787540.1 EST_HUMAN 3426 0.57 1.0E-109 BE787540.1 EST_HUMAN 3426 0.57 1.0E-109 BE187576.1 EST_HUMAN 34747 0.54 1.0E-109 BE39708.1 EST_HUMAN 34748 0.54 1.0E-109 BE39708.1 EST_HUMAN 34748 0.54 1.0E-109 BE39708.1 EST_HUMAN 36200 2.73 1.0E-109 BE540809.1 EST_HUMAN 36201 2.73 1.0E-109 BE540809.1 EST_HUMAN 36202 2.73 1.0E-109 BE540809.1 EST_HUMAN 36386 2 1.0E-109 BF640809.1 EST_HUMAN 36386 2 1.0E-109 BF640809.1 EST_HUMAN 36503 1.0E-109 BF640809.1 EST_HUMAN 36503 1.0E-109 BF640809.1 EST_HUMAN 36503 1.0E-109 BF640809.1 EST_HUMAN 36503 1.0E-109 BF640809.1 EST_HUMAN 36503 1.0E-109 BF640809.1 EST_HUMAN 36503 1.0E-109 BF640831.1 EST_HUMAN 36503 1.0E-109 BF640831.1 EST_HUMAN 36503 1.0E-109 AU121370.1 EST_HUMAN	0085		5.94	1.0E-109		EST HUMAN	801809495F1 NIH MGC 18 Home sepiens CDNA close IMAGE 4040370 F1
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34125 1.0E-109 AW749130.1 EST_HUMAN 34125 14.1 1.0E-109 BE787540.1 EST_HUMAN 34368 0.57 1.0E-109 BE787540.1 EST_HUMAN 34368 0.57 1.0E-109 BE145672.1 EST_HUMAN 34747 0.54 1.0E-109 BE397068.1 EST_HUMAN 34863 3.55 1.0E-109 BE397068.1 EST_HUMAN 36200 2.73 1.0E-109 BE397068.1 EST_HUMAN 36201 2.73 1.0E-109 BE540809.1 EST_HUMAN 36202 2.73 1.0E-109 BE540809.1 EST_HUMAN 36203 2.73 1.0E-109 BE640809.1 EST_HUMAN 36204 2.73 1.0E-109 BE640809.1 EST_HUMAN 36205 2.73 1.0E-109 BF640809.1 EST_HUMAN 36206 2.73 1.0E-109 BF640809.1 EST_HUMAN 36386 2.10E-109 BF640809.1 EST_HUMAN 36386 2.10E-109 BF640831.1 EST_HUMAN 36537 1.0E-109 BF640831.1 EST_HUMAN 36538 1.0E-109 BF640831.1 EST_HUMAN 36539 1.0E-109 BF640831.1 EST_HUMAN 36539 1.0E-109 AV121370.1 EST_HUMAN	0655		1.17	•			Novel human gene mapping to chomosome 13
34125 1.0E-109 BE787540.1 EST_HUMAN 34126 14.1 1.0E-109 BE787540.1 EST_HUMAN 34368 0.57 1.0E-109 BE145672.1 EST_HUMAN 34747 0.54 1.0E-109 BE397068.1 EST_HUMAN 34748 0.54 1.0E-109 BE397068.1 EST_HUMAN 34200 2.73 1.0E-109 BE540809.1 EST_HUMAN 36200 2.73 1.0E-109 BE540809.1 EST_HUMAN 36201 2.73 1.0E-109 BE540809.1 EST_HUMAN 36202 2.73 1.0E-109 BE540809.1 EST_HUMAN 36203 2.73 1.0E-109 BE640809.1 EST_HUMAN 36204 2.73 1.0E-109 BE640809.1 EST_HUMAN 36205 2.89 1.0E-109 BF640809.1 EST_HUMAN 36386 2.10E-109 BF640809.1 EST_HUMAN 36553 1.0E-109 A4502838 NT	0768		1.27			EST HUMAN	PM0-BT0340-091299-002-605 BT0340 Home sepiens cDNA
34125 14.1 1.0E-109 BE787540.1 EST_HUMAN 34386 0.57 1.0E-109 BE145672.1 EST_HUMAN 34382 1.82 1.0E-109 BE397068.1 EST_HUMAN 34748 0.54 1.0E-109 BE397068.1 EST_HUMAN 34853 3.55 1.0E-109 BE397068.1 EST_HUMAN 36200 2.73 1.0E-109 BE540809.1 EST_HUMAN 36201 2.73 1.0E-109 BE540809.1 EST_HUMAN 36202 2.73 1.0E-109 BE540809.1 EST_HUMAN 36203 2.73 1.0E-109 BE540809.1 EST_HUMAN 36204 2.73 1.0E-109 BF640809.1 EST_HUMAN 36205 2.10E-109 BF640801.1 EST_HUMAN 36206 3.5.59 1.0E-109 BF640801.1 EST_HUMAN 36503 1.0E-109 BF64081.1 EST_HUMAN 36503 1.0E-109 BF64081.1 EST_HUMAN 36503 1.0E-109 A502838 NT	1130		2.65	1.0E-109		EST HUMAN	7B18H01 Chromosome 7 Fetal Brain cDNA Library Homo sariens cONA Alms 7B19U04
34126 14.1 1.0E-109 BE787540.1 EST_HUMAN 34368 0.57 1.0E-109 BE145672.1 EST_HUMAN 3442 1.82 1.0E-109 H84860.1 EST_HUMAN 34748 0.54 1.0E-109 BE397068.1 EST_HUMAN 34748 0.54 1.0E-109 BE397068.1 EST_HUMAN 36200 2.73 1.0E-109 BE540809.1 EST_HUMAN 36201 2.73 1.0E-109 BE540809.1 EST_HUMAN 36202 2.73 1.0E-109 BE540809.1 EST_HUMAN 36203 2.55 1.0E-109 BF694831.1 EST_HUMAN 36204 35.59 1.0E-109 BF694831.1 EST_HUMAN 36386 2 1.0E-109 AF62279 NT 36553 1.0E-109 AF62279 THUMAN 36553 1.0E-109 AF62279 RST_HUMAN 36553 1.0E-109 AF622838 NT	1208		14.1	1.0E-109		HUMAN	501479417F1 NIH MGC 68 Homo sepiens CDNA clone IMAGE:3822124 5
34368 0.57 1.0E-109 BE145672.1 EST_HUMAN 34747 0.54 1.0E-109 BE397068.1 EST_HUMAN 34748 0.54 1.0E-109 BE397068.1 EST_HUMAN 36200 2.73 1.0E-109 E540909.1 EST_HUMAN 36201 2.73 1.0E-109 BE540809.1 EST_HUMAN 36202 2.73 1.0E-109 BE540809.1 EST_HUMAN 36203 2.73 1.0E-109 BE540809.1 EST_HUMAN 36204 35.59 1.0E-109 BF694831.1 EST_HUMAN 36205 2 1.0E-109 BF694831.1 EST_HUMAN 36503 1.0E-109 A56209 NT 36836 2 1.0E-109 A0121370.1 EST_HUMAN 36553 1.0E-109 A0121370.1 EST_HUMAN	1208		14.1			Г	501479417F1 NIH MGC 68 Homo sabiens cDNA clone IMAGE:3832124 5
34642 1.82 1.0E-109 H84860.1 EST_HUMAN 34747 0.54 1.0E-109 BE397068.1 EST_HUMAN 34748 0.54 1.0E-109 BE397068.1 EST_HUMAN 36200 2.73 1.0E-109 FE540909.1 EST_HUMAN 36201 2.73 1.0E-109 BE540909.1 EST_HUMAN 36229 35.59 1.0E-109 BF694831.1 EST_HUMAN 36386 2 1.0E-109 BF694831.1 EST_HUMAN 3653 1.0E-109 A662279 NT 3653 1.0E-109 A62279 NT 36553 1.0E-109 A602239 NT 36835 2.84 1.0E-109 A4502838 NT	1446		0.57	_		Γ	ILO-HT0205-071199-142-g01 HT0205 Homo sapiens cDNA
34747 0.54 1.0E-109 BE397068.1 EST HUMAN 34788 0.54 1.0E-109 BE397068.1 EST HUMAN 34883 3.55 1.0E-109 F06604.1 EST HUMAN 36200 2.73 1.0E-109 BE540909.1 EST HUMAN 36229 2.73 1.0E-109 BF640803.1 EST HUMAN 36229 35.59 1.0E-109 BF694831.1 EST HUMAN 36386 2 1.0E-109 BF694831.1 EST HUMAN 36553 1.0E-109 AF62279 NT 36553 1.0E-109 AF02838 NT	1698		1.82				ye90g08.r1 Scares retina N2b5HR Homo sapiens cDNA clone IMAGE:222110 5 similar to SP:A53491
34748 0.54 1.0E-109 BE397068.1 EST HUMAN 34863 3.55 1.0E-109 F06604.1 EST HUMAN 36200 2.73 1.0E-109 BE540909.1 EST HUMAN 36229 35.59 1.0E-109 BF694831.1 EST HUMAN 36386 2 1.0E-109 BF694831.1 EST HUMAN 36387 2 1.0E-109 T766229 NT 36553 1.0E-109 AF02279 NT 36553 1.0E-109 AF022838 NT	1798		0.54	1.0E-109	l	Т	S01289760F1 NIH MGC 8 Home analest CDNA class MA CE Secondo E
34863 3.55 1.0E-109 F06604.1 EST HUMAN 36200 2.73 1.0E-109 BE540909.1 EST HUMAN 36201 2.73 1.0E-109 BE540909.1 EST HUMAN 36229 35.59 1.0E-109 BF694831.1 EST HUMAN 36386 2 1.0E-109 F762279 NT 36387 2 1.0E-109 766229 NT 36553 1.9E-109 A402838 NT 36835 2.84 1.0E-109 A4502838 NT	1798		0.54	1.0E-109	Τ	Т	301289760F1 NIH MGC 8 Home seniers of NA close 144 CE 3822000 5
36200 2.73 1.0E-109 BE540909.1 EST HUMAN 36201 2.73 1.0E-109 BE540909.1 EST HUMAN 36229 35.59 1.0E-109 BF694831.1 EST HUMAN 36386 2 1.0E-109 7682279 NT 36387 2 1.0E-109 7682279 NT 36553 1.9E-109 A4502838 NT	1914		3.55	1.0E-109		Т	4SC1EC121 normalized infant brain cDNA Homo carions cDNA class c 4-143
36201 2.73 1.0E-109 BE540809.1 EST_HUMAN 36229 35.59 1.0E-109 BF694831.1 EST_HUMAN 36386 2 1.0E-109 T768228 NT 36387 2 1.0E-109 T768229 NT 36553 1.9E 10 AUA1370.1 EST_HUMAN 36835 2.84 1.0E-109 AU121370.1	3185		2.73	1.0E-109		T	301063030F1 NIH MGC 10 Homo sanians CDNA close IMA DE 2240600 st
36229 35.59 1.0E-109 BF694831.1 EST HUMAN 36386 2 1.0E-109 7662279 NT 36387 2 1.0E-109 7682279 NT 36553 1.0E-109 AU121370.1 EST HUMAN 36835 2.84 1.0E-109 4502838 NT	3185		2.73	1.0E-109		Т	301063030F1 NIH MGC 10 Homo sepiens cDNA clone MAACE: 3440500 F
36386 2 1.0E-109 7662279 NT 36387 2 1.0E-109 7662279 NT 36553 1.95 1.0E-109 AU121370.1 EST HUMAN 36835 2.84 1.0E-109 4502838 NT	3217	36229	35.59	1.0E-109		Т	302080724F2 NIH MGC 81 Homo sabiens cDNA clone IMAGE-2248341 5'
36387 2 1.0E-109 7682279 NT 36553 1.95 1.0E-109 AU121370.1 EST HUMAN 36835 2.84 1.0E-109 4502838 NT	3368	36386	2	1.0E-109	7662279		Homo sapiens KIAA0744 gene product: histone deaceMase 7 (KIAA0744) mRNA
36553 1.95 1.0E-109 AU121370.1 EST_HUMAN 36835 2.84 1.0E-109 4502838 NT	3368		2	1.0E-109	7662279		Homo sapiens KIAA0744 gene product: histone deacendase 7 (KIAA0744), mRNA
36835 2.84 1.0E-109 4502838 NT	3518		1.95	1.0E-109		T_HUMAN	3U121370 HEMBB1 Homo sapiens cDNA clone HEMBB1002690 57
	3778		2.84	1.0E-109	02838		Jomo sapiens Chediak-Higashi syndrome 1 (CHS1) mRNA

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Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
11285	23738	36794	6.81	1.0E-109	1.0E-109 W16510.1	EST_HUMAN	zb08b12.r1 Soares_fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE:301439 5' similar to PIR:543869 543869 p54-beta stress-activated protein kinases - rat ;
12131	L_	27441	1.6	1.0E-109	1.0E-109 Y17123.1	NT	Homo sapiens SNF5/INI1 gene, excn 6
12252	L	30961	15.45	1.0E-109	1.0E-109 AB011399.1	NT.	Homo sapiens gene for AF-6, complete cds
6	12683	25139	1.19	1.0E-110		Ι	Home sapiens deiodinase, iodothyronine, type II (DIO2), transcript variant 2, mKNA
\$				1.0E-110	5803073 NT	LN	Homo sapiens leucine zipper-like transcriptional regulator, 1 (LZTR1), mRNA
\$	<u>L</u>		4.61	1.0E-110	5803073 NT	TN	Homo sapiens leucine zipper-like transcriptional regulator, 1 (LZTR1), mRNA
114	L		0.83	1.0E-110	7549804 NT	NT	Homo sapiens deiodinase, iodothyronine, type II (DIO2), transcript variant 2, mRNA
316	12970	25459	-	1.0E-110	10 D87291.1	NT	Human mRNA for inward rectifier potassium channel, complete cds
553	l	25662	0.93	1.0E-110	1.0E-110 U84550.1	NT	Human dystrobrevin (DTN) gene, exon 20
1222	13822	26337	76.0	1.0E-110	5031620	NT	Homo sapiens calcitonin receptor-like (CALCRL) mRNA
1322	L		1.28	1.0E-1		NT.	Homo sapiens BAZ18 mRNA for bromodomain adjacent to zinc finger domain 18, complete cds
1965	L			1.0E-1		EST_HUMAN	601237545F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3609683 5
2103	L			1.0E-1	1.0E-110 BF508896.1	EST_HUMAN	UI-H-BI4-gos-b-05-0-UI.s1 NCI_CGAP_Sub8 Hamo sapiens cDNA clone IMAGE:3085784 3'
2866	L		0.95		4503098 NT	NT	Homo sapiens chondroitin sulfate protooglycan 4 (melanoma-associated) (CSPG4), mRNA
3085		26438	0.85	1.0E-1	10 AB032253.1	TN	Homo sapiens BAZ1B mRNA for bromodomain adjacent to zinc finger domain 1B, complete cds
							Homo sapiens Bruton's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein
3123	15737		1.2	1.0E-1	10 U78027.1	L	(L44L) and FTP3 (FTP3) genes, complete cds
3228	15840	28319	6.37	1.0E-110		Ę	Homo saplens pregnancy-zone protein (PZP), mkNA
3228	ı	L	6.37	1.0E-110	11436041 NT	IN	Homo sapiens pregnancy-zone protein (PZP), mRNA
7,00		20176	60.0	1.0E.1	10 BE018556 1	FST HUMAN	bb82a05.y1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3048848 5' similar to TR:060312 050312 KIAA0568 PROTEIN
4281				1.0E-1	10 M15918.1	LN	Human autoimmune antigen small nuclear ribonucleoprotein E pseudogene
4740	1			1.0E-1	10 AI017213.1	EST_HUMAN	ou32b10.x1 Soares_NFL_T_GBC_S1 Homo sepiens cDNA clone IMAGE:1627963 3' similar to SW:N121_RAT P52591 NUCLEAR ENVELOPE PORE MEMBRANE PROTEIN POM 121 :
4758	L			1.0E-1	10 AU117812.1	EST_HUMAN	AU117812 HEMBA1 Hamo sapiens cDNA clone HEMBA1002241 5'
5109			1.8	1.0E-1	7662441 NT	LΝ	Homo sapiens KIAA1002 protein (KIAA1002), mRNA
5498		30540	2	1.0E-1	10 BE299406.1	EST_HUMAN	601118710F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3028538 5
2900	L			1.0E-1	BE6210	EST_HUMAN	601493677F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3895785 5
5917	L		6.81	1.0E-110	11418323 NT	LN L	Homo sapiens hypothetical protein FLJ10300 (FLJ10300), mRNA
5917	18539	31265	6.81	1.0E-1	0 11419323 NT	Z.	Homo sapiens hypothetical protein FLJ10300 (FLJ10300), mKNA
8818	3 24771		3.2	1.0E-1	10 M55112.1	۲N	Human cystic fibrosis transmentibrane conductance regulatin (OFTIN) gene, exon /
7159	┇			1.0E-1	10 U08888.1	L	Human GSZ gene, exch Z
7159	19691	1 32537	0.83	- 9	110 U08888.1	LZ	Human GSZ gene, axan z

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Table 4
Single Exon Probes Expressed in Fetal Liver

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Table 4
Single Exon Probes Expressed in Fetal Liver

																		7), mRNA	7) mRNA				similar to		g E	ar to					
Single Exon Probes Expressed in Fetal Liver	Top Hit Descriptor	Homo sapiens KIAA0440 protein (KIAA0440), mRNA	Homo sapiens intersectin 2 (SH3D1B) mRNA, complete cds	601442674F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3846858 5'	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA	MR2-8T0590-090300-113-f09 BT0590 Hamo sapiens cDNA	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA	Homo sapiens mRNA for KIAA1411 protein, partial cds	Homo sapiens mRNA for KIAA1411 protein, partial cds	1y35d07.r1 Soares melanocyte 2NbHM Homo sapiens cDNA clone IMAGE:273229 5'	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3	UI-HF-BR0p-gis-g-08-0-UI.r1 NIH_MGC_52 Hama sapiens cDNA clone IMAGE:3075658 5'	UI-HF-BR0p-gis-g-06-0-UI.r1 NIH_MGC_52 Homo sapiens cDNA clone IMAGE:3075658 5'	601594717F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3948557 5:	801142755F1 NIH_MGC_14 Homo saplens cDNA clone IMAGE:3506508 5	601142755F1 NIH_MGC_14 Hamo sapiens cDNA clone IMAGE:3506508 5	602131405F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4270921 5'	Homo sapiens solute carrier family 6 (neurotransmitter transporter, L-proline), member 7 (SLC6A7), mRNA	Homo sepiens solute cerrier family 6 (neurotransmitter transporter, L-proline), member 7 (SLC8A7), mRNA	AU118051 HEMBA1 Homo sapiens cDNA clone HEMBA1002773 5	601443151F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847285 5'	601443151F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847285 5'	7/30g07.xf Soares_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3523020 3' similar to TR:09VW35 09VW35 CG8743 PROTEIN ;	MR3-SN0009-100400-106-b12 SN0009 Homo sapiens cDNA	Vd56410.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:112243 3' similar to SP:C40H1.1 CE00109 OVARIAN PROTEIN;	yd56d10.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:112243 3' similar to	SP:C40H1.1 CE00109 OVARIAN PROTEIN;	Homo sapiens mRNA for secreted modular calcium-binding protein (smoc1 gene)	601155323F1 NIH_MGC_21 Homo saplens cDNA clone IMAGE:3138989 5'	IL-BT061-311298-009 BT061 Homo sapiens cDNA	PM0-CT0237-141099-001-h02 CT0237 Homo sapiens cDNA
Exon Propes	Top Hit Database Source	L'Z	NT	EST_HUMAN	Z	EST_HUMAN	۱	IN	LN	EST_HUMAN	N	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST HUMAN	EST HUMAN	EST_HUMAN	۲N	Ł	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST HUMAN	EST_HUMAN		EST_HUMAN	N	EST HUMAN	EST_HUMAN	EST HUMAN
eignic	Top Hit Acession No.	7662125 NT	DE-112 AF248540.1	0E-112 BE868859.1	4504116 NT	0E-112 BE076073.1	4504116 NT	0E-112 AB037832.1	DE-112 AB037832.1		0E-112 AF149773.1	DE-112 AW 502437.1	0E-112 AW502437.1	0E-112 BE741666.1	0E-112 BE273103.1	0E-112 BE273103.1	0E-112 BF574235.1	11416777 NT	11416777 NT	0E-112 AU118051.1	0E-112 BE867635.1	0E-112 BE867635.1	0E-112 BF111413.1	0E-112 AW863327.1	1.20967.1						DE-112 AW377670.1
	Most Similar (Top) Hit BLAST E Value	1.0E-112	1.0E-112	1.0E-112 B	1.0E-112	1.0E-112 B	1.0E-112	1.0E-112 A	1.0E-112 A	1.0E-112 N46046.1	1.0E-112 A	1.0E-112 A	1.0E-112 A	1.0E-112 B	1.0E-112 E	1.0E-112 B	1.0E-112	1.0E-112	1.0E-112	1.0E-112 A	1.0E-112 E	1.0E-112 B	1.0E-112.B	1.0E-112	1.0E-112 T93967.1		1.0E-112 T93967.1	1.0E-112 A	1.0E-112 BE280479.	1.0E-112 A	1.0E-112 A
	Expression Signal	4.44	1.56	1.81	0.59	0.74	0.65	5.1	5.1	38.42	1.36	0.85	0.85	1.2	89.0	99.0	1.36	1.57	1.57	1.93	2.49	2.49	2.06	3.51	1,85		1.85	4.28	1.76	2.08	4.71
	ORF SEQ ID NO:	26854	27000	27684		28020	29735	29891	29892	31198	31609	31672	31673	31778	32146	32147	32416	32764	32765	33587	34350	34351	35289	36205	36283		36284	36364	١	36599	1
	Exon SEQ ID NO:	14313	14444	15114		16551	17291	17441			18836	18902	18902	19000	19340	19340	19587	19901	19901	20875	21425	21425	22305	23189	23267		23267	23348	23491	23564	23574
	Probe SEQ ID NO:	1722	1856	2550	3114	3953	4709	4864	4864	5848	6227	6294	6294	6397	6747	6747	6928	7375	7375	8134	8887	8887	9807	10657	10743		10743	10827	10976	11051	11062

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Single Exon Probes Expressed in Fetal Liver	Top Hit Descriptor	ao95f01.x1 Schiller meningioma Homo sapiens cDNA clone IMAGE:1953625 3'	ao95f01.x1 Schiller meningioma Homo sapiens cDNA clone IMAGE:1953625 3'	Human X-linked phosphoglycerate kinase gene, exon 8	8095f01.x1 Schiller meningioma. Homo sapiens cDNA clone IMAGE:19536253'	Homo sapiens elF4E-transporter mRNA, complete cds	UI-H-BW 1-ani-f-03-0-UI.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3082876 3'	Homo sapiens mRNA for putative RNA helicase, 3' end	801489485F1 NIH_MGC_87 Homo sapiens cDNA clone IMAGE:3872536 5	AU127214 NT2RP2 Hamo sapiens cDNA clone NT2RP2000807 5'	AU140291 PLACE2 Hamo sapiens cDNA clone PLACE2000274 5	Homo saptens P-glycoprotein (mdr1) mRNA, complete cds	Homo sapiens UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 8	(GalNAc-T8) (GALNT8), mRNA	Homo sapiens ATP-binding cassette, sub-family B (MDR/TAP), member 4 (ABCB4), transcript variant B,	A.	Homo sapiens ATP-binding cassette, sub-family B (MDR/TAP), member 4 (ABCB4), transcript variant B, mRNA	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA	601152078F1 NIH_MGC_19 Hamo sapiens cDNA clone IMAGE:3508362 5'	801152078F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3508362 5	601297709F1 NIH_MGC_19 Hamo sapiens cDNA clone IMAGE:3627554 5:	601297709F1 NIH_MGC_19 Hamo sapiens cDNA clone IMAGE:3627554 5	RC1-FT0134-280600-021-d02 FT0134 Homo sepiens cDNA	Homo sapiens transmembrane protein 2 (TMEM2), mRNA	Human erg protein (ets-related gene) mRNA, complete cds	Homo sepiens RAN binding protein 7 (RANBP7), mRNA	Homo sapiens RAN binding protein 7 (RANBP7), mRNA	UI-HF-BN0-akj-b-12-0-UI.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077328 5	hh81a09.y1 NCI_CGAP_GU1 Homo sapiens cDNA clone IMAGE:2969176 5 similar to TR:060327 060327	KIAA0584 PROTEIN:	hh81a09.y1 NCI_CGAP_GU1 Hamo sapiens cDNA clone IMAGE:2869176 5' similar to TR:O60327 O60327 KIAA0884 PROTEIN;	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA
Exon Probes Ex	Top Hit Database Source	HUMAN	EST_HUMAN ace	P F	T_HUMAN	NT HO	EST_HUMAN UH		EST_HUMAN 601		EST_HUMAN AU	NT								THUMAN		EST_HUMAN 601	EST_HUMAN 601			NT			EST_HUMAN UI-		EST HUMAN KIA	T_HUMAN	
Single	Top Hit Acession No.	-113 AI365586.1 E	-113 Al365586.1 E		-113 Al365586.1 E	-113 AF240775.1 N				1.0E-113 AU127214.1		1.0E-113 AF016535.1 IN		11525737 NT		8961249 NT	9961249 NT	6006002 NT	6006002 NT		1.0E-113 BE262161.1 E	1.0E-113 BE382842.1	1.0E-113 BE382842.1 E	1.0E-113 BE772967.1 E	11429367 NT	-113 M21535.1	5453997 NT	5453997 N	-113 AW 500519.1 E		-113 AW 630291.1	1.0E-113 AW630291.1	802
	Most Similar (Top) Hit BLAST E Value	1.0E-113	1.0E-113	1.0E-113 M11965.1	1.0E-113	1.0E-113	1.0E-113	1.0E-113	1.0E-113	1.0E-113	1.0E-113	1.0E-113		1.0E-113		1.0E-113	1.0E-113	1.0E-113	1.0E-113	1.0E-113	1.0E-113	1.0E-113	1.0E-113	1.0E-113	1.0E-113	1.0E-113	1.0E-113	1.0E-113	1.0E-113		1.0E-113	1.0E-113	1.0E-113
	Expression	5.13	5.13	6.33	2.48	0.92	1.02	2.06	3.07	9	3.89			2.43		0.88)	0.88	0.71	0.71	77.0	77.0	3	3	0.72	1.2	0.55	0.81	0.81	1.71		2.11	2.11	1.58
	ORF SEQ ID NO:	25890	25891	28105	28713	27128	12272	28249		30808	31444	31475		31604		31684	31685	31844	31845		32752		34489		35224	35323	35441	35442	36551		36559		31844
	SEQ ID NO:	Ĺ	13391			15395		15778		18311	18697	18722		18830		18911	18911	19059					21581			22341	22458	22458	L		23525		19059
	Probe SEQ ID NO:	772	772	978	1588	1983	2142	3164	5454	5684	6080	6106		6220		6304	6304	6458	6458	7362	7362	9024	9024	9322	9745	9843	8963	8963	11002		11011	11011	11097

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T							
Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
11097	1		1.58	1.0E-113	6006002 NT	NT.	Homo sapiens glutamata receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA
11141	23849	36691		1.0E-113	113 BE292968.1	EST_HUMAN	601105529F1 NIH_MGC_15 Homo saplens cDNA clone IMAGE:2988368 5'
11370	23822	36884	2.53	1.0E-113	113 AA580720.1	EST_HUMAN	nc80b03.r1 NCI_CGAP_GC1 Homo capiens cDNA clone IMAGE:797089 5' similar to SW:FEN1_HUMAN P39748 FLAP ENDONUCLEASE-1;
11370	23822	36885	2.53	1.0E-113	113 AA580720.1	EST HUMAN	nc80b03.r1 NCI_CGAP_GC1 Homo sapiens cDNA clone IMAGE.797069 5' similar to SW:FEN1_HUMAN P39748 FLAP ENDONUCLEASE-1:
82	1	25213	1.2	1.0E-114	114 Y17151.2	L	Homo saplens mRNA for multidrug resistance protein 3 (ABCC3)
62	12741	25214		1.0E-114	114 Y17151.2	LN	Homo sapiens mRNA for multidrug resistance protein 3 (ABCC3)
62	12741		1.2	1.0E-114	114 Y17151.2	Ŋ	Hamo sapiens mRNA for multidrug resistance protein 3 (ABCC3)
873	13307	02230	66.66	400	144 170664 4	NAME OF THE PARTY.	yd15c01.s1 Sogres fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:106288 3' similar to
100	13713				8923087 NT	TN	Homo sapiens hypothetical protein FL120080 (FL120080) mRNA
1358	1	L		1.0E-114		L'N	Homo sapiens rhabdoid furmor deletion region protein 1 (RTDR1), mRNA
1684	ļ			1.0E-114		LN.	Homo sapiens minichromosome maintenance deficient (S. cerevislae) 3 (MCM3), mRNA
171	14304	L		1.0E-114	6679073 NT	LN	Homo sapiens nucleoporin-like protein 1 (NLP_1), mRNA
2830			2.13	1.0E-114	114 AB033102.1	Z	Homo sapiens mRNA for KIAA1276 protein, partial cds
2830			2.13		114 AB033102.1	FZ	Homo sapiens mRNA for KIAA1276 protein, partial cds
3165				1.0E-114		FN	Human gene for catalase (EC 1.11.1.6) exon 2 mapping to chromosome 11, band p13
3207	15819		1.02	1.0E-114	114 BF206374.1	EST_HUMAN	601869932F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4100214 5'
4088	16684		1.81	1.0E-114	114 AF149773.1	TN	Homo saplens NOD1 protein (NOD1) gene, exons 1, 2, and 3
4480	17085			1.0E-114	114 J03171.1	LN	Human interferon-alpha receptor (HulFN-alpha-Rec) mRNA, complete cds
5324	17886	30302		1.0E-114	114 BE275324.1	EST_HUMAN	601122173F1 NIH_MGC_20 Hamo sapiens cDNA clone IMAGE:3346099 5'
5360	17920	30334	0.93	1.0E-114	114 AA194468.1	EST_HUMAN	zq05e05.r1 Stratagene muscle 937209 Homo sapiens cDNA clone IMAGE:628832 5' similar to contains MER22.t3 MER22 repetitive element;
5597	18227	30674	1.36	1.0E-114	4506880 NT	L	Homo sapiens sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short evidesmic domain, (semanhorin) 54 (SEMA5A) mRNA
							Homo sapiens sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain
5597	18227	30675	1.36	1.0E-114	45068B0 NT	NT	(TM) and short cytoplasmic domain, (semaphorin) 5A (SEMASA) mRNA
5781	18408	31122	1.35	1.0E-114	9257201 NT	LN	Homo sapiens clathrin, heavy polypeptide-like 1 (Q.TCL1), transcript variant 2, mRNA
7137	19476		1.13	1.0E-114	114 AB041533.1	IN	Homo sapiens HCMOGT-1 mRNA for sperm antigen, complete cds
7288			1.2	1.05-	114 AU134187.1	EST_HUMAN	AU134187 OVARC1 Hamp sapiens cDNA clone OVARC1001444 5
7288	19816			1.0E-	7.1	EST_HUMAN	AU134187 OVARC1 Homo sapiens cDNA clone OVARC1001444 5'
7326	19853	32715	7.05	1.0E-	114 Y18000.1	LN	Homo sapiens NF2 gene

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Jingie Extil Flobes Expressed III Felal Liver	Top Hit Descriptor	Homo sapiens NF2 gene	Homo sapiens gamma-aminobutyric acid (GABA) A receptor, alpha 2 (GABRA2) mRNA	qy68d06.x1 NCI_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2017163 3'	qy68d06.x1 NCI_CGAP_Bm25 Homo saplens cDNA clone IMAGE:2017163 3'	Human neural cell adhesion molecule CD56 mRNA, complete cds	Homo sapiens mRNA for KIAA0561 protein, partial cds	Homo sapiens mRNA for KIAA0561 protein, partial cds	7169g12.x1 Soares_NSF_F6_9W_OT_PA_P_S1 Homo sepiens cDNA clone IMAGE:3526847.3' similar to TR.Q9UHN6 Q9UHN6 TRANSMEMBRANE PROTEIN 2.	dq03f05.x1 NIH_MGC_2 Homo sapiens cDNA clone IMAGE:2846744 5'	Homo sapiens tyrosine kinase pp60c-src (SRC) gene, exon 12 and partial cds	Human ceruloplasmin mRNA	801449752F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3853500 5	Homo saplens chromosome 21 segment HS21C027	MR0-HT0559-250200-002-d07 HT0559 Homo sapiens cDNA	be73g12.y1 NIH_MGC_20 Homo sepiens cDNA clone IMAGE:2908086 5' similar to gb:X17208 40S RIBOSOMAL PROTEIN S4 (HUMAN); gb:M20832 Mouse LLRep3 protein mRNA from a repeditive element.	complete (MOUSE):	AV733454 cdA Hamo sepiens cDNA clane cdABA08 5'	AV733454 cdA Homo sapiens cDNA clone cdABA08 5	Homo sepiens TNF-inducible protein CG12-1 (CG12-1), mRNA	Homo sapiens hypothetical protein (DJ1042K10.2), mRNA	Homo sapiens hypothetical protein (DJ1042K10.2), mRNA	Homo sapiens HLA-B associated transcript-1 (D6S81E) mRNA	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide A (220kD) (POLR2A) mRNA	Homo sapiens keratin 18 (KRT18) mRNA	QV4-UM0094-300300-156-b08 UM0094 Homo sapiens cDNA	qt06f01.x1 NCI_CGAP_GC4 Homo saplens cDNA clone IMAGE:1948809.3' similar to TR:000538 000538 TF-I INTERACTING PEPTIDE 5	qt06f01.x1 NCI_CGAP_GC4 Homo sapiens cDNA clone IMAGE:1948809 3' similar to TR:000538 000538 TTF-I INTERACTING PEPTIDE 5;	Homo sapiens transforming growth factor beta-activated kinase-binding protein 1 (TAB1), mRNA	Homo sapiens transforming growth factor beta-activated kinase-binding protein 1 (TAB1), mRNA	Homo sapiens ferritin, heavy polypoptide 1 (FTH1) mRNA
EXOIL FIODE	Top Hit Database Source	LN	ΙΝ	EST_HUMAN	EST_HUMAN	TN	FZ	LN	EST HUMAN	EST_HUMAN	LZ TZ	L	EST_HUMAN	FZ	EST_HUMAN		EST_HUMAN	EST_HUMAN	EST_HUMAN	LN	LN	LN	LN	IN	LN	EST_HUMAN	EST HUMAN	EST_HUMAN	LN	IN	LN
aifilic	Top Hit Acession No.	-114 Y18000.1	4557600 NT	1363139.1	1363139.1	J63041.1	1.0E-114 AB011133.1	1.0E-114 AB011133.1	1.0E-114 BF109832.1	1.0E-114 AW327455.1	1.0E-114 AF077754.1	A13536.1	1.0E-114 BE870004.1	1.0E-114 AL163227.2	1.0E-114 BE171984.1		:-114 BE302060.1	1.0E-114 AV733454.1	1.0E-114 AV733454.1	11418041 NT	11034850 NT	11034850 NT	4758111 NT	4505938 NT	4557887 NT	-115 AW804759.1	:-115 Al339206.1	1339206.1	5174702 NT	\$174702 NT	4503794 NT
	H H H H H	1.0E-114	1.0E-114	1.0E-114 AI363139.1	1.0E-114 AI363139.1	1.0E-114 U63041.1	1.0E-114 /	1.0E-114 /	1.0E-114	1.0E-114 /	1.0E-114	1.0E-114 M13538.1	1.0E-114	1.0E-114	1.0E-114		1.0E-114 E	1.0E-114	1.0E-114	1.0E-114	1.0E-114	1.0E-114	1.0E-115	1.0E-115	1.0E-115	1.0E-115	1.0E-115	1.0E-115 AI339208.1	1.0E-115	1.0E-115	1.0E-115
	Expression Signal	7.05	1.88	1.81	1.81	4.12	5.52	5.52	0.92	18.44	3.14	6.13	0.94	1.32	0.71		13.62	3.31	3.31	3.79	2.85	2.85	6.12	2.34	8.73	3.77	0.95	0.95	1.29	1.29	190.74
ļ	ORF SEQ ID NO:	32718	33280			34093	34165	34166	34586		33227		25537	35556	32832							30910		25288		25456				25943	
	Exon SEQ ID NO:	19853	20374	20649	20649	21174	21241	21241	21646	21849	20322	21992	22540	22561	22928		23198	23582	23582	25093	24585	24565	12704	12800	12804	12968	13192	13192	13436	13436	13438
	Probe SEQ ID NO:	7326	7832	8108	8108	8635	8702	8702	9110	8335	8384	9467	10045	10066	10434		10666	11070	11070	12137	12410	12410	25	135	139	314	88	58	819	819	821
		_		_	_		_					_	_		_		_	_	_	_		_	_	_	_	_			_	_	_

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hq54c10.x1 NO_CGAP_Pan3 Home sapiens cDNA clone IMAGE:3123189 3' similar to TR:O88378 O88378 PRP4 PROTEIN KINASE HOMOLOG ; th 12807.x1 NCI_CGAP_CLL1 Homo saplens cDNA clone IMAGE: 2118038 3' similar to TR: 016129 016129 Human olfactory receptor olfr17-201-1 (OR17-201-1) gene, olfactory receptor olfr17-32 (OR17-32) gene and hq54c10.x1 NCI_CGAP_Pan3 Homo saplens cDNA clone IMAGE:3123186 3' similar to TR:O88378 O883? PRP4 PROTEIN KINASE HOMOLOG ; 601509879F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3911610 5'
x32708.x1 NCI_CGAP_Ut1 Homo sapiens cDNA clone IMAGE:2839239 3' similar to SW:CAYP_CANFA Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) Homo sapiens calcium channel, voltage-dependent, alpha 1E subunit (CACNA1E) mRNA Homo sapiens protein phosphatase, EF hand calcium-binding domain 1 (PPEF1) mRNA qg99e09.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1843336 3' qg99e09.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1843336 3' olfactory receptor pseudo_offr17-01 (OR17-01) pseudogene, complete cds Homo sapiens mRNA for KIAA0790 protein, partial cds 601513337F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3914600 5 601121347F1 NIH MGC 20 Homo sapiens cDNA clone IMAGE:2988875 5 601818352F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4050108 5' Homo sapiens pericentrin (PCNT) mRNA AU133080 NT2RP4 Homo sapiens cDNA clone NT2RP4001228 Top Hit Descriptor Homo sapiens eukaryotic translation Initiation factor 4B (EIF4B) RC6-ET0081-130700-011-G01 ET0081 Homo sapiens cDNA RC6-ET0081-130700-011-G01 ET0081 Homo sapiens cDNA Human apolipoprotein B-100 (apoB) gene, exons 17 and 18 Human apolipoprotein B-100 (apoB) gene, exons 17 and 18 Homo sapiens mRNA for KIAA0995 protein, partial cds Homo sapiens synaptojanin 1 (SYNJ1), mRNA Homo sapiens synaptojanin 1 (SYNJ1), mRNA Human mRNA for KIAA0338 gene, partial cds Human mRNA for KIAA0338 gene, partial cds Homo saplens pericentrin (PCNT) mRNA PHENYLALANYL TRNA SYNTHETASE P10463 CALCYPHOSINE; genes, complete cds EST HUMAN EST_HUMAN EST_HUMAN EST_HUMAN HUMAN EST_HUMAN HUMAN EST_HUMAN **EST HUMAN** EST_HUMAN EST HUMAN EST_HUMAN Top Hit Database Source 눋 ż ż ΙN 4507334 NT 11434772NT 5174478 5453941 4502528 4507334 5174478 Top Hit Acession 1.0E-115 AW 571544.1 1.0E-116 AB018333.1 1.0E-116 BE889256.1 1.0E-115 BE045890.1 1.0E-115 BF382029.1 1.0E-115 BE045890.1 AF240788.1 1.0E-116 AU133080.1 1.0E-115 BE830187.1 1.0E-115 BE830187.1 AB002336.1 AB023212.1 .0E-115 AB002338.1 1.0E-115 AI221878.1 BE886295. .0E-115 AI221878.1 1.0E-115 AI524687.1 ģ M19824.1 1.0E-116 U78308.1 M19824.1 .0E-116 1.0E-116 .0E-116 1.0E-115 1.0E-115 1.0E-115 .0E-116 .0E-116 .0E-116 1.0E-118 Most Similar (Top) Hit BLAST E 뺭 빙 빙 2.84 4.14 0.58 2.13 3.39 0.97 12.83 0.68 3.79 20.2 13 3.39 1.08 9 6.85 2.13 2.87 Expression Signal 27835 27883 27294 35383 35906 35907 35914 35952 36144 36689 36590 25957 27190 27224 27293 33554 35162 35382 27191 27491 34207 ORF SEQ Ö N Q 15404 15458 15458 14949 15061 22914 23130 23648 23648 23729 14622 19962 20642 22407 13450 SEO ID 2782 2145 2380 2497 11140 2040 2145 9690 9910 9910 10596 11140 11278 11698 2040 8101 10414 10420 10448 8 833 8747 892 SEQ ID ÿ

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
3209	15821	28296	4.18	1.0E-116 L77570.1		NT	Homo sapiens DiGeorge syndrome critical region, centromeric end
3209	15821	28297	4.18	1.0E-116 L77570.1		NT	Homo sapiens DiGeorge syndrome critical region, centromeric end
4467	17053	29497	2.11	1.0E-116	1N 4581606	۲	Homo sapiens sodium phosphate transporter 3 (NPT3) mRNA
4981	17555	28887	1.86	1.0E-116	1.0E-116 AI907096.1	EST_HUMAN	PM-B7135-070499-016 BT135 Homo sapiens cDNA
5363	17923		0.88	1.0E-116	1.0E-116 AJ243213.1	Ę	Homo sapiens partial 5-HT4 receptor gene, exons 2 to 5
5483	18117	30525	0.82	1.0E-116	1.0E-116 AI302062.1	EST_HUMAN	qn19d04.x1 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1898695 3' similar to conteins element MER25 repetitive element ;
6132	18746	31502	2.1	1.0E-116		EST HUMAN	222407.r1 Soares, senescent_fibroblasts_NbHSF Homo septens cDNA clone IMAGE:323245 5' similer to SW:MDHM_MOUSE P08249 MALATE DEHYDROGENASE, MITOCHONDRIAL PRECURSOR:
6329	18963	31740	1.81	1.0E-116	1.0E-116 AB046856.1	FZ	Homo sapiens mRNA for KIAA1636 protein, partial cds
6359	18963	31741	1.81	1.0E-116	1.0E-116 AB046856.1	L-Z	Homo sapiens mRNA for KIAA1636 protein, partial cds
6423	19028	31809	1.14	1.0E-116	1.0E-116 BE408097.1	EST_HUMAN	601302281F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3636764 5'
9530	19130	31924	1.96	1.0E-116	1.0E-116 BF677910.1	EST_HUMAN	602084730F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4249087 5'
6637	19233		1.82	1.0E-116	1.0E-116 BE158133.1	EST_HUMAN	MR2-HT0379-210200-102-b04 HT0379 Homo sapiens cDNA
7023	19557	32382	2.08	1.0E-116	1.0E-116 C02944.1	EST_HUMAN	C02944 Human heart cDNA (YNakamura) Homo sapiens cDNA clone 3NHC0567
7254	19782	32638	7.18	1.0E-116	1.0E-116 AV716314.1	EST_HUMAN	AV716314 DCB Hamo sapiens cDNA clane DCBBCG06 5
8310	20851	33775	1.4	1.0E-116	1.0E-116 AA354256.1	EST_HUMAN	EST62685 Jurkat T-cells V Homo sapiens cDNA 5' end similar to similar to keratin 2
8310			1.4	1.0E-116	1.0E-116 AA354256.1	EST_HUMAN	EST62885 Jurkat T-cells V Homo sapiens cDNA 5' end similar to similar to keratin 2
8416	20956	33873	1.49	1.0E-116	1.0E-116 AI904151.1	EST_HUMAN	CM-BT043-090299-075 BT043 Homo sapiens cDNA
8868	21407	34331	1.15		1.0E-116 BE565507.1	EST_HUMAN	601338268F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3680680 5
9028	21565	34494	2.75		1.0E-116 AI216352.1	EST_HUMAN	qh09c05.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1844168 3' similar to gb:X53741_ma1 FIBULIN-1, ISOFORM A PRECURSOR (HUMAN);
8282	22082	92026	1.36	1.0E-116	11418646 NT	LN	Homo sapiens laminin, alpha 2 (merosin, congenital muscular dystrophy) (LAMA2), mRNA
10171	22666	35661	0.67			LN	Homo sapiens partial mRNA for xylosyltransferase I (XT-I gene)
10171	22666	35662	0.67		1.0E-116 AJ277441.1	LN	Homo sapiens partial mRNA for xylosyltransferase I (XT-I gene)
10250	22745		0.82		1.0E-116 BE158913.1	EST_HUMAN	QV4-HT0401-281289-063-c09 HT0401 Homo sapiens cDNA
10567		36117	3.89		1.0E-116 BF335849.1	EST_HUMAN	CM2-CT0482-300800-349-e06 CT0482 Homo sapiens cDNA
	_						qq41e04.x1 Soares_NhHMPu_S1 Homo sapiens cDNA clone IMAGE:1935102 3' similar to WP:B0495.7
11015		36565	3.63	1.0E-116	1.0E-116 AI367140.1	EST_HUMAN	CE01765;
12456			3.62	1.0E-116	AL134889.1	EST_HUMAN	DKFZp762L1110_r1 762 (synonym: hmel2) Homo sapiens cDNA clone DKFZp762L1110 5'
\$84			1.88		26636	L	Homo sapiens acetyl-Coenzyme A carboxylase alpha (ACACA), mRNA
1116		26231	1:46			NT	Mus musculus fragile-X-related protein 1 (Fxr1h) gene, exons 13a through 15
1268	13865		0.81	1.0E-117	1.0E-117 AF264750.1	21	Homo sapiens ALR-like protein mRNA, partial cds

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					1.0		
Probe SEQ ID NO:	SEQ ID	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
1789	14379		1.28	1.0E-117	1	NT	Homo saplens lymphocyte activation-associated protein mRNA, complete cds
1871	14457	27014	5.27	1.0E-117	17 M19816.1	NT	Human apolipoprotein B-100 (apoB) gene, exon 10
2252	L			1.0E-117	1.6	EST_HUMAN	EST369769 MAGE resequences, MAGE Hamo sapiens cDNA
3308				1.0E-117		Π	op32c11.s1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1578548 3'
	L					П	EST188414 HCC cell line (malastasis to liver in mouse) II Homo sapiens cDNA 5' end similar to ribosomal
4062	16659	29122	8.83	1.0E-117	17 AA316723.1	3.1 EST_HUMAN	protein L29
4438	17022		2.27	1.0E-117		NT	Homo sapiens collegen, type IV, alpha 5 (Alport syndrome) (COL4A5), mRNA
4877	_		2.1	1.0E-117	17 AL042120.1	EST_HUMAN	DKFZp434C1120_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434C1120 5
4933	17508		10.14	1.0E-1		NT	Homo saplens Scar2 (SCAR2) gene, partial cds
4933	L	29956	10.14	1.0E-	117 AF134304.2	LN	Homo saplens Scar2 (SCAR2) gene, partial cds
5074	L		3.29	1.0E-117	17 AB020673.1	IN	Homo sapiens mRNA for KIAA0868 protein, complete cds
5551	L		3.8	1.0E-	117 BE730508.1	EST_HUMAN	801562857F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3832214 5
7473	L		5.22	1.06	117 L76571.1	TN	Homo sapiens nuclear hormone receptor (shp) gene, 3' end of cds
7473	L			1.0E-	117 176571.1	Z	Homo sapiens nuclear hormone receptor (shp) gene, 3' end of cds
7550	L			1.0E-1	8.1	EST_HUMAN	AV717788 DCB Homo sapiens cDNA clone DCBBAE01 5'
7550	L			1.0E-1	17 AV717788.1	EST HUMAN	AV717788 DCB Homo saptens cDNA clone DCBBAE01 5
	L						wp86b07.x1 NCI_CGAP_Bm25 Home sapiens cDNA clone IMAGE:2468629 3' similar to TR:075065
7919	20461	33367	3.77	1.0E-117	117 Al950145.1	EST_HUMAN	075065 KIAA0477 PROTEIN.;
8253	20794	33711	1.07	1.0E-117	10834989 NT	LN	Homo sapiens neural cell adhesion molecule 1 (NCAM1), mRNA
8253	L				10834989 NT	뉟	Homo sapiens neural cell achesion molecule 1 (NCAM1), mRNA
8350	L	L	1.32	1.0E-	117 Al904151.1	EST_HUMAN	CM-BT043-090299-075 BT043 Homo sapiens cDNA
8350	1	L	1.32	1.06	117 Al904151.1	EST_HUMAN	CM-BT043-090299-075 BT043 Homo sapiens cDNA
9223	ı			1.0E-	117 D16524.1	NT	Human gene for very low density lipoprotein receptor, exon 11
9701			1.71	1.0E-117	117 BE733922.1	EST_HUMAN	601569317F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3843748 5
9857	L	35335		1.0E-	117 AF099033.1	NT	Homo sepiens gamma-aminobutyric acid type B receptor 2 (GABABR2) mRNA, complete cds
10462			1.98	1.0E-117	11420222 NT	TN	Home sapiens Drosophila Kelch like protein (DKELCHL), mRNA
10737	L	l		1.0E-	117 D83776.1	NT	Human mRNA for KIAA0191 gene, partial cds
				!			283511.11 Soares_fetal_heart_NDHH19W Home sapiens cDNA clone IMAGE:347229 5' similar to
10901	_1				W 8060	ESI HUMAN	Bullet 19 Bother (North-County of Strans Isomerasa) NIMA-interacting 1 (PIN1), mRNA
10917				- J.		Z	I Collo deplote by Collo
10917				- - 9	11424835 NT	L	Homo sapiens protein (pepudy-proty cistuans semierase) Nima-interacting acting 1 (1 in 1), minus
11153	23660	36704		1.0E-	117 AB011541.1	LN.	Homo sapiens mKNA for MEGP8, partial cds
11153	23660	36705			1.0E-117 AB011541.1	FN	Homo sapiens mKNA for MEGP8, partial cds
11272	ł	2	31.65		7 BE269856.1	EST_HUMAN	601186203F1 NIH MGC B Hamo sapiens curva cione imacia: 3044290 0

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Single Exon Probes Expressed in Petal Liver	Top Hit Descriptor	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA	Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3	(UBE2D3) genes, complete cds	Mus musculus fragile-X-related protein 1 (Fxr1h) gene, exons 13a through 15	Homo sapiens HSPC151 mRNA, complete cds	DKFZp434l056_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434l056 5	Hamo sapiens hypothetical protein (DJ328E19.C1.1), mRNA	Homo sapiens sine oculis homeobox (Drosophile) homolog 1 (SIX1) mRNA	601281947F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604019 5'	601 281947F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604019 5'	601281947F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604019 5'	EST363799 MAGE resequences, MAGB Homo sapiens cDNA	Human breakpoint cluster region (BCR) gene, complete cds	Human breakpoint cluster region (BCR) gene, complete cds	Homo sapiens PRKY exon 7	qp01f05.x1 NCI_CGAP_Kid5 Homo sapiens cDNA clone MAGE:1916769 3'	qp01f05.x1 NCI_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1916769 3'	Human mRNA for ribosomal protein, complete cds	Hamo sapiens KIAA0478 gene product (KIAA0478), mRNA	Homo sapiens calcium channel gamma 4 subunit (CACNG4) gene, exon 3	Homo saplens calcium channel gamma 4 subunit (CACNG4) gene, exon 3	Homo sapiens realin (RELN), mRNA	Homo saplens reelin (RELN), mRNA	Human GS2 gene, exon 6	Human GS2 gene, exon 6	Human cystic fibrosis transmembrane conductance regulator (CFTR) gene, exon 4	Homo sapiens T-box 4 (TBX4), mRNA	Homo sapiens T-box 4 (TBX4), mRNA	Homo sapiens transient receptor potential channel 5 (TRPC5), mRNA	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA	DKFZp43400127_r1 434 (synonym: htes3) Hamo sapiens cDNA clone DKFZp43400127 5'	DKFZp43400127_r1 434 (synonym: htes3) Homo sapiens cDNA done DKFZp43400127 5'
Exon Propes	Top Hit Database Source							EST HUMAN				EST_HUMAN (EST_HUMAN (EST_HUMAN E				EST_HUMAN	EST_HUMAN (NT.		I)						NT							EST_HUMAN I
eignic	Top Hit Acession No.	4501848 NT	4501848 NT					.118 AL045854.1	7657016 NT	5174680 NT	.118 BE389705.1	-118 BE389705.1	-118 BE389705.1	.118 AW951729.1	.118 U07000.1		-118 Y13932.1	-118 Al347694.1	-118 Al347694.1	-118 D23660.1	11425793 NT	-118 AF142624.1	.118 AF142624.1	11422054 NT	11422054 NT	.118 U08892.1		-118 M55109.1	11425900 NT	11425900 NT	11420764 NT	4557732 NT	4557732 NT	118 AL043761.1	-118 AL043761.1
	Most Similar (Top) Hit BLAST E Value	1.0E-117	1.0E-117		1.0E-117	1.0E-117	1.0E-118	1.05-118	1.0E-118	1.0E-118	1.0E-118	1.0E-118	1.0E-118	1.0E-118	1.0E-118	1.0E-118	1.0E-118	1.0E-118	1.0E-118	1.0E-118	1.0E-118	1.0E-118	1.0E-118	1.0E-118	1.0E-118	1.0E-118	1.0E-118	1.0E-118	1.0E-118	1.0E-118	1.0E-118	1.0E-118	1.0E-118	1.0E-118	1.0E-118
	Expression Signal	2.04	2.04		1.7	1.81	8.91	0.88	5.79	1.3	1,93	1,93	1,93	0.98	2.82	2.82	4.01	6,49	6,49	9.69	1.45	1.89	1.89	1.01	1.01	0.77	0.77	0.92	1.2	1.2	1.4	1.58	1.58	1.03	1.03
	ORF SEQ ID NO:		36982			26231		25257	25654		27425		27427		27888			28321	28322							31239			31383			32199			32529
	Exan SEQ ID NO:	23914	23914		_ t	15433	12752	12775	13174	15429	14849	14849						15841	15841										18642						19686
	Probe SEQ ID NO:	11464	11464		11936	12662	74	66	543	947	2275	2275	2275	2367	2768	2768	3138	3229	3229	4162	4817	5616	5616	5813	5813	2890	5890	5944	6023	8023	8609	6793	6793	7154	7154

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Top Hit Descriptor	Homo sapiens glutamate receptor, Ionotropic, kainate 1 (GRIK1) mRNA	AU133399 NT2RP4 Homo sapiens cDNA clone NT2RP4001991 5'	1) gene, complete cds	RC1-NN0073-250800-018-g06 NN0073 Homo sapiens cDNA	AV693731 GKC Homo saplens cDNA clone GKCDHB03 5'	qb77c09.x1 Soares, fetal, heart, NbHH19W Homo sapiens cDNA clone IMAGE:1706128 3' similar to SW:K1CJ, MOUSE P02535 KERATIN, TYPE I CYTOSKELETAL 10:	Homo sapiens matrix metalloproteinase 28 (MMP28) mRNA, complete cds	Homo sapiens matrix metalloproteinase 28 (MMP28) mRNA, complete cds	tm23f10.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2157451 3'	euegoo	EST386296 MAGE resequences, MAGM Homo sapiens cDNA	601592005F1 NIH_MGC_7 Homo sapiens cDNA clane IMAGE:3946081 5'	601280564F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3622526 5'	Homo sapiens melanoma differentiation associated protein-5 (MDA5), mRNA	Homo sapiens KIAA0477 gene product (KIAA0477), mRNA	ea3205.11 NCL_CGAP_GCB1 Home sepiens cDNA clone IMAGE:814977 6	Homo sapiens partial IL-12RB1 gene for IL-12 receptor beta1 chain, exons 16-17	Homo sapiens hypothetical protein FLJ10206 (FLJ10208), mRNA	Homo sapiens hypothetical protein FLJ10208 (FLJ10208), mRNA	Homo sapiens Scd mRNA for stearoyl-CoA desaturase, complete cds	602186072F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4310633 5'	RC3-CT0212-240999-011-f03 CT0212 Homo sapiens cDNA	Homo sapiens mRNA for KIAA0758 protein, partial cds	in 1 (SYNJ1), mRNA	Homo sapiens intersectin 2 (SH3D1B) mRNA, complete cds	Homo sapiens intersectin 2 (SH3D1B) mRNA, complete cds	yy40g12.r1 Soares melanocyte 2NbHM Homo sapiens cDNA clone IMAGE:273766 5'	Homo saplens cysteine-rich repeat-containing protein S52 precursor, mRNA, complete cds	Homo saplens disintegrin and metalloprotease domain 10 (ADAM10) mRNA	in 1 (SYNJ1), mRNA	Homo sapiens cAMP-specific phosphodiesterase 8A (PDE8A) mRNA, partial cds	Homo sapiens cAMP-specific phosphodiesterase 8A (PDE8A) mRNA, partial cds	Homo sapiens stanniccalcin (STC) gene, partial cds
	Homo sapiens glutamate	AU133399 NT2RP4 Hor	Human neurofibromin (NF1) gene, complete cds	RC1-NN0073-250800-0	AV693731 GKC Homo s	qb77c09.x1 Soares_feta SW:K1CJ_MOUSE P02	Homo sapiens matrix me	Homo sapiens matrix me	tm23f10.x1 Soares_NFL	Human c-fes/fps proto-oncogene	EST386296 MAGE rese	601592005F1 NIH_MGC	601280564F1 NIH_MGC	Homo sapiens melanome	Homo sapiens KIAA0477	aa32/05.r1 NCI_CGAP_	Homo sapiens partial IL-	Homo sapiens hypothetic	Homo sapiens hypothetic	Homo sapiens Scd mRN	602186072F1 NIH_MGC	RC3-CT0212-240999-01	Homo sapiens mRNA for	Homo saplens synaptojanin 1 (SYNJ1), mRNA	Homo sapiens intersectir	Homo sapiens intersectir	yy40g12.r1 Soares melar	Homo sapiens cysteine-r	Homo saplens disintegrir	Homo saplens synaptojanin 1 (SYNJ1), mRNA	Homo sapiens cAMP-spe	Homo sapiens cAMP-spe	Homo sapiens stannioca
Top Hit Database Source	N	EST_HUMAN	NT	EST_HUMAN	EST_HUMAN	EST HUMAN	L	Z	EST_HUMAN	TN	EST_HUMAN	EST_HUMAN	EST_HUMAN	NT	NT	EST_HUMAN	NT	NT	NT	NT	EST_HUMAN	EST_HUMAN	NT	NT	NT	TN	EST_HUMAN	NT	NT	NT	NT	NT	NT
Top Hit Acession No.	4504116 NT	-119 AU133399.1	-119 M89914.1	-119 BE936121.1	-119 AV693731.1	-119 Al150703.1	-119 AF315683.1	-119 AF315683.1	-119 AI476732.1	-119 X06292.1	-119 AW974193.1	-119 BE 796614.1	-119 BE615150.1	11545921 NT	11036643 NT	-119 AA465124.1	-119 AJ297701.1	11425837 NT	11425837 NT	-119 AB032261.1	-119 BF569571.1	-119 AW847519.1	-120 AB018301.1	4507334 NT	-120 AF248540.1	-120 AF248540.1	-120 N44873.1	-120 AF167706.1	4557250 NT	4507334 NT	.120 AF056490.1		-120 AF098463.1
Most Similar (Top) Hit BLAST E Value	1.0E-119	1.0E-119	1.0E-119	1.0E-119	1.0E-119	1.0E-119	1.0E-119	1.0E-119	1.0E-119	1.0E-119	1.0E-119	1.0E-119	1.0E-119	1.0E-119	1.0E-119	1.0E-119	1.0E-119	1.0E-119	1.0E-119	1.0E-119	1.0E-119	1.0E-119	1.0E-120	1.0E-120	1.0E-120	1.0E-120	1.0E-120	1.0E-120	1.0E-120	1.0E-120	1.0E-120	1.0E-120	1.0E-120
Expression Signal	1.09	3.45	15,55	3.01	1.52	5.76	0.68	0.68	1.06	2.82	4.9	1.27	0.94	0.55	1.04	2.78	0.92	99.0	99.0	3.99	10.54	3.05	0.65	0.77	2.62	2.62	3.24	2.49	1.64	1.04	1.68	1.68	2.82
ORF SEQ ID NO:	28086	28508			30723	31652	31815	31816												36005			25404	25465	26195			26772	26983				29801
Exon SEQ ID NO:	16624	18172		18189	18254	18884	19032												_			25012	12917										17350
Probe SEQ ID NO:	4026	5540	5553	5557	5625	6276	6428	6429	6473	6588	6598	7440	8596	9870	9821	10145	10398	10438	10438	10502	11082	11997	258	323	1079	1079	1471	1645	1842	3348	4449	4449	4769

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Probe NO: NO: NO: 1769 5911 5911 5911 7835 7835 8347 8347 8347 8347 8347 8347 8347 8347	<u> </u>	g O	Signa	Most Sim (Top) H (Top) H (Albert Line) H (Albe	Top Hit Acession Lop Hit Acession Lop Hit Acession Lop Hit Acession Lop Hit Acession Lop Hit Acession Lop AF054821.1 NT Lop AF054821.1 Lop AF054821.1 Lop AF064821.1 Lop AF06607.1 NT Lop AF060784.1 NT Lop AF060784.1 NT Lop AF0607864.1 NT Lop AF0607864.1 NT Lop AF0607864.1 Lop AF0607864.1 Lop AF0607864.1 Lop AF0607864.1 Lop AF0607864.1 Lop AF0607864.1 Lop AF0607864.1 Lop AF0607864.1 Lop AF0607864.1 Lop AF0607864.1 Lop AF0607864.1 Lop AF0607864.1 Lop AF0607864.1 ES Lop AF0607864.1 ES Lop AF0607864.1 ES Lop AF0607864.1 ES Lop AF0607864.1 ES Lop AF060784.1 Lop AF0607864.1 ES Lop AF060784.1 ES Lop AF06078	Top Hit Detabese Source Source THUMAN THUMAN THUMAN THUMAN THUMAN THUMAN THUMAN THUMAN THUMAN THUMAN THUMAN THUMAN THUMAN THUMAN THUMAN THUMAN THUMAN THUMAN	Top Hit Descriptor Homo saplens stanniccalcin (STC) gene, partial cds Homo saplens stanniccalcin (STC) gene, partial cds Homo saplens cytochrome P-450 mRNA, complete cds Homo saplens chromosome 21 segment 15221C013 B0218399471 NIH_MGC_42 Homo saplens cDNA clone IMAGE:4300174 5 B0218399471 NIH_MGC_42 Homo saplens cDNA clone IMAGE:4300174 5 Human gene for neurofilament subunit M (NF-M) B02035352F1 NIH_MGC_87 Bm64 Homo saplens cDNA clone IMAGE:4183333 5 Homo saplens mRNA for KIAA1231 protein, partial cds Homo saplens mRNA for KIAA1231 protein, partial cds Homo saplens mRNA for KIAA1231 protein, partial cds Homo saplens mRNA for KIAA1231 protein, partial cds Homo saplens mRNA for KIAA0465 protein, partial cds Homo saplens mRNA for KIAA0465 protein, partial cds Homo saplens mRNA for KIAA0465 protein, partial cds Homo saplens mRNA for KIAA0465 protein, partial cds B01307739F1 NIH_MGC_41 Homo saplens cDNA clone IMAGE:382544 5 B01307739F1 NIH_MGC_41 Homo saplens cDNA clone IMAGE:3847281 5 B0143135F1 NIH_MGC_67 Homo saplens cDNA clone IMAGE:3847281 5 B0143135F1 NIH_MGC_67 Homo saplens cDNA clone IMAGE:3847281 5 B0143135F1 NIH_MGC_67 Homo saplens cDNA clone IMAGE:3847281 5 B0143135F1 NIH_MGC_67 Homo saplens cDNA clone IMAGE:3847281 5 B0143135F1 NIH_MGC_67 Homo saplens cDNA clone IMAGE:3847281 5 B0143135F1 NIH_MGC_67 Homo saplens cDNA clone IMAGE:3847281 5 B0143135F1 NIH_MGC_67 Homo saplens cDNA clone IMAGE:3847281 5 B0143135F1 NIH_MGC_67 Homo saplens cDNA clone IMAGE:3847281 5 B0143135F1 NIH_MGC_67 Homo saplens cDNA clone PNACE1 NIPA more saplens cDNA clone PNACE1 Homo saplens cDNA clone PNACE1 Homo saplens cDNA clone PNACE1 Homo saplens cDNA clone PNACE1 Homo saplens cDNA clone PNACE1 Homo saplens cDNA clone PNACE1 Homo saplens cDNA clone PNACE1 Homo saplens cDNA clone PNACE1 Homo saplens cDNA clone PNACE1 Homo saplens cDNA clone PNACE1000896 5
2008 2008 2150	15423 14590 14727 15812	25867 27150 27151 27300			121 5032192 NT 121 4755139 NT 121 4755139 NT 121 L76831.1 131 L76831.1 131 L76831.1 131 L76831.1 131 L76831.1	TN TN T	Homo sapiens TNF receptor-associated factor 1 (TRAF1) mRNA Homo sapiens inositol potyphosphate 4-phosphatase, type I, 107kD (INPPAA), splice variant a, mRNA Homo sapiens inositol potyphosphate 4-phosphatase, type I, 107kD (INPPAA), splice variant a, mRNA Homo sapiens melabotropic glutamatic receptor 1 beta (mGINR1betta) mRNA, complete cds Homo sapiens series administrative francfaces submit Il good.
9667	╛	╛	1.03		AF111108.2	Z	Hamo sapiens serine paimitoy transferase, subunit II gene, complete cds; and unknown genes

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		_	_		_	T	_	_	_	_	_	_	-	-	_	-	_		_		-,	_	_	~	_	-			_		
Single Exon Probes Expressed in Petal Liver	Top Hit Descriptor	Homo saplens hHb3 gene for hair keratin, exons 1 to 9	Homo sapiens hHb3 gene for hair keratin, exons 1 to 9	Homo sapiens mRNA for KIAA1337 protein, partial cds	Homo sapiens mRNA for KIAA1337 brotein, partial cds	Home sapiens adaptor-related protein complex AP-4 easilon subunit mRNA complete cds	qx57b01.x1 NCI_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2005417.3	H.sapiens ECE-1 gene (exon 17)	hu09f08.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3166119 3'	801140485F1 NIH MGC 9 Homo sapiens cDNA clone IMAGE:3049820 5	Homo sapiens Xq pseudoautosomal region; segment 2/2	RC3-NN0066-270400-011-f02 NN0066 Homo sapiens cDNA	RC3-NN0066-270400-011-f02 NN0066 Homo sapiens CDNA	Homo sapiens gamma-aminobuturic acid (GABA) A receptor, alpha 2 (GABRA2), mRNA	Homo sapiens DNA for prostacyclin synthase, exon 8	Homo sapiens DNA for prostacyclin synthase, exon 8	ia05g05.71 Human Pancreatic Islets Homo sapiens cDNA 5' similar to TR:075457 075457 CYTOSOLIC PHOSPHOLIPASE A2-GAMMA.	ia05g05.y1 Human Pancreatic Islets Homo sapiens cDNA 5' similar to TR:075457 075457 CYTOSOLIC	Homo sabiens COX11 (vaest) homolog cylichroma chindren accombiumotein (COX11) ENA	Homo sapiens UDP-glucuronosyltansferase 284 precursor (UGT2B4) mRNA, UGT2B4*E458 allele,	Complete cas Homo carlanc chlorida intracallular channel 4 lills (2) 10.4 1 — B.1.4	W74c01.51 Scares fetal liver spleen 1NFLS Home senions - DNA - Live 1MACE: 2464.46 2:	Homo sapiens T-cell Imphoma invasion and metastasis 1 (TIAM1) mRNA	Homo sapiens intersectin short isoform (ITSN) mRNA, complete cds	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1), mRNA	Homo sapiens intersectin short isoform (ITSN) mRNA, complete cds	Human kappa-immunoqiobulin demijne psaudogane (Chr22.4) variabla radion (estorrasio V bonna II)	Homo sapiens cysteine-rich repeat-containing protein S52 precursor mRNA complete rich	Homo sapiens collagen, type XII, alpha 1 (COL12A1), mRNA	Homo sapiens collagen, type XII, alpha 1 (COL12A1), mRNA	601497032F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3898358 5
EXOII PIODE	Top Hit Database Source	LΝ	LN-	LN L	N	N F	EST_HUMAN	N	EST_HUMAN	EST HUMAN	L	EST_HUMAN	EST HUMAN	N	Į.	\ L	EST HUMAN	MAN IN TOR	11427788 NT	Ŀ	- I-	EST HUMAN	1	ΙZ	FZ.	H	Ł	ĻΖ	FZ	N	EST_HUMAN
alburc	Top Hit Acession	-121 Y19208.1	-121 Y19208.1	-121 AB037758.1				-121 X91937.1	-121 BE222250.1		-121 AJ271736.1	-121 AW898086.1	-121 AW898086.1	6217	-121 D84122.1	-121 D84122.1	-121 AW583858.1	121 AW583858 1	11427788	A 700 C 200 C 200 C	10334	121 N59624.1	1528176	122 AF114488.1	11526178 NT	122 AF114488.1	122 M20707.1	-	11418424 NT	11418424 NT	122 BE906024.1
	Most Similar (Top) Hit BLAST E Value	1.0E-121	1.0E-121	1.0E-121	1.0E-121	1.0E-121	1.0E-121	1.0E-121	1.0E-121	1.0E-121	1.0E-121	1.0E-121	1.0E-121	1.0E-121	1.0E-121	1.0E-121	1.0E-121	1 0F-124	1.0E-121	200	1 0E-121	1.0E-121	1.0E-122	1.0E-122	1.0E-122	1.0E-122	1.0E-122		1.0E-122	1.0E-122	1.0E-122
	Expression Signal	3.63	3.63	0.94	0.94	8.78	1.42	3.54	1.02	0.69	1.06	0.75	0.75	1.86	2.19	2.19	6.0	o c	3.45		3.51	2.11	1.68	3.01	1.61	5.29	4.63	1.08	1.8	1.8	6.15
	ORF SEQ ID NO:	28201	28202	28677		28810						30451		33328	33332	33333	35254	35255	36203	36.200	36388	36412	25430	25490	25515	26047	26376	26864	26887	26888	26995
	Exon SEQ ID NO:			16193								18062			20424	20424	,22270	22270		23104	23380	1				13528			14340	14340	14438
	Probe SEQ ID NO:	3117	3117	3589	3589	3741	4424	5112	5472	5750	8969	7042	7042	7878	7882	7882	9772	9772	10655	10662	10848	10875	289	358	380	915	1262	1731	1750	1750	1850

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i					2.6		
Probe SEQ ID NO:	_ ω	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
5638			1.6	1.0E-1	23 L34219.1	LN	Homo sapiens retinaldehyde-binding protein (CRALBP) gene, complete cds
5769	ļ			1.0E-1	23 BE799746.1	EST_HUMAN	601591108F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3945433 5*
6595	19192	31997	2.14	1.0E-1	23 AU118435.1	EST_HUMAN	AU118435 HEMBA1 Homo sapiens cDNA clone HEMBA1003591 5'
7076	19648	32486			23 H53198.1	EST_HUMAN	удваюЗ.г.1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA done IMAGE:202444 5' similar to SP:YAK1_YEAST P14680 PROTEIN KINASE YAK1 ;
7084	19655		1.22		23 U42224.1	LN.	Human grawth hormone releasing hormone gene, exon 7
7245		32631	89:0	1.0E-123	23 U55258.1	N	Human hBRAVO/Nr-CAM precursor (hBRAVO/Nr-CAM) gene, complete cds
7433		32822	67.0	1.0E-123	11525833 NT	NT	Homo sapiens heparan sulfate (glucosamine) 3-O-sulfotransferase 2 (HS3ST2), mRNA
7638			1.31	1.0E-123	11436439 NT	N	Homo sapiens 2-5'oligoadenylate synthetase 2 (OAS2), mRNA
7847	20159	33046	1.79	1.0E-1	23 BE263001.1	EST_HUMAN	601152815F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3509162 5'
7784	20272	33170	8.0	1.0E-1	23 N35841.1	EST HUMAN	yx88d11.r1 Soares melanocyte 2NbHM Homo sapiens cDNA clone IMAGE:288917 5' similar to PIR:S49611 549611 protein kinase PknA - Phycomyces blakesteepins
							yx89d11.r1 Soares melanocyte 2NbHM Homo sapiens cDNA clone IMAGE:268917 5' similar to PIR:S49611
7764		33171	0.8	1.0E-1	23 N35841.1	EST_HUMAN	S49611 protein kinase PkpA - Phycomyces blakesleeanus;
8472	21012		2.25	1.0E-1	23 AW371924.1	EST_HUMAN	RC4-BT0311-251199-012-607 BT0311 Homo sapiens cDNA
9291	21891	34838		1.0E-1	23 AB007923.1	L	Homo sapiens mRNA for KIAA0454 protein, partial cds
9424	21833	34882	39.79	1.0E-	123 009823.1	Ę	Oryctolagus cuniculus New Zealand white elongation factor 1 alpha (Raberla2) mRNA, complete cds
11587	24014	37083	5.42	1.0E-123	23 BF677292.1	EST_HUMAN	602086791F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4250879 5
11567	24014			1.0E-1	23 BF677292.1	EST_HUMAN	602086791F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4250879 5'
290		25431		1,0E-		ΙN	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
280	12946	25432	0.93	1.0E-124	4507500 NT	NT	Homo sapiens T-cell lymphoma invesion and metastasis 1 (TIAM1) mRNA
286	12952		1.2	1.9E-1	24 D87675.1	IN	Homo sapiens DNA for amyloid precursor protein, complete cds
511	13144	25630	2.28	1.0E-	24 AL163246.2	IN	Homo sapiens chromosome 21 segment HS21C046
720	13340	52853	7	1.0E-1	24 AA397551.1	EST HUMAN	z81b04.r1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:728719 5' similer to TR:G300482 G300482 POL=REVERSE TRANSCRIPTASE HOMOLOG (RETROVIRAL ELEMENT):
720	13340	25830	*	1.96.	124 AA397551.1	EST HUMAN	281604.r1 Stratagene schizo brain S11 Homo sapiens CDNA cione IMAGE:728719 5' similar to TR:G300482 G300482 POL-REVERSE TRANSCRIPTASE HOMOLOG (RETROVIRAL FLEMENT)
789	13407	25912	4.86	1.06	124 AF155654.1	Z.	Human putative ribosomal protein S1 mRNA
841	13457	25966	1.18	1.0E-124	4507500 NT	LZ LZ	Homo saplens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
937	L		60'9	1.0E-124	7705446 NT	N	Homo sapiens hypothetical protein (HSPC068), mRNA
1358					11419092 NT	LN	Homo saplens ring finger protein (RNF), mRNA
1391				1.0E-1	24 AF274892.1	NT	Homo sapiens glucose transporter 3 gene, exons 9, 10, and complete cds
1391	13985	28212	6.15	1.8 B	124 AF274892.1	N	Homo sapiens glucose transporter 3 gene, exons 9, 10, and complete cds

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]		Т	Γ	Т	Τ	Т	T	T	T	Π	Γ	Г	Γ	T		Τ	Τ	Г	Т	T			Т	Г	Т	Γ	Г	Г	Γ	Γ	Γ	Ţ
Chigo Excit 1 obox Explassed III at Eliver	Top Hit Descriptor	Homo sapiens mRNA for nucleolar RNA-helicase (noH61 gene)	601491715F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3893954 5	Homo sapiens ATP-sensitive inwardly rectifying K-channel subunit (KCNJ6/BIR1) gene, exon	Homo sapiens ATP-sensitive inwardly rectifying K-channel subunit (KCNJ&BIR1) gene, exon	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA	Homo sapiens gene for B120, expn 11	Human fibronectin gene extra type III repeat (EDII), exon x+1	EST378463 MAGE resequences, MAGH Homo sapiens cDNA	Homo sapiens hypothetical protein FLJ10300 (FLJ10300), mRNA	Homo saplens IQ motif containing GTP ase activating protein 1 (IQGAP1) mRNA	802124644F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4281635 5'	AV711283 Cu Homo sapiens cDNA clone CuAADF07 5'	Homo sapiens ubiquitin specific probase 9, X chromosome (Drosophila fat facets related) (USP9X). mRNA	M.musculus mRNA for hoxa3 gene	800943771F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:2908585 5'	600943771F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:2868585 5'	ac08h05.s1 Stratagene HeLa cell s3 937216 Homo sapiens cDNA clone IMAGE:855897 3'	Homo sapiens ribosomal protein L5 (RPL5) mRNA	hg94a09.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2953240 3' similar to TR:095162 095162 PEROXISOMAL SHORT-CHAIN ALCOHOL DEHYDROGENASE.;	hg94a09.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2953240 3' similar to TR:095162 095162 PEROXISOMAL SHORT-CHAIN ALCOHOL DEHYDROGENASE.	wc43g03.x1 NCI_CGAP_Pr28 Homo sapiens cDNA clone IMAGE:2321428 3'	wc43g03.x1 NCI_CGAP_Pr28 Homo sapiens cDNA clone IMAGE:2321428 3'	AV645633 GLC Homo sapiens cDNA clane GLCACE04 3'	AV645633 GLC Homo sapiens cDNA clone GLCACED4 3'	Homo saplens cep250 centrosome associated protein mRNA, complete cds	Homo sapiens cep250 centrosome associated protein mRNA, complete cds	wi93f02.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2400891 3'	wi83f02.x1 NCI_CGAP_Kid12 Horno septens cDNA clone IMAGE:2400891 3'	UI-HF-BN0-akz-b-04-0-UI.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078846 5'	11 TO CHO 1 LITE OF SOLUTION
ממון ו ווסציו	Top Hit Database Source	FZ	EST_HUMAN	Ę	FN	NT	LN L	Į.	NT	EST_HUMAN	IN	TN	EST_HUMAN	EST_HUMAN	F	LX.	EST_HUMAN	EST_HUMAN	EST_HUMAN	Z.	EST_HUMAN	EST HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	TN	NT	EST HUMAN	EST_HUMAN	EST_HUMAN	MAN U FOR
olgino.	Top Hit Acession No.	E-124 AJ131712.1	E-124 BE879524.1	E-124 S78684.1	E-124 S78684.1	4507500 NT	4504116 NT	E-124 AB024069.1	E-124 M18178.1	E-124 AW963390.1	8922337 NT	4506786 NT	E-124 BF696135.1	E-124 AV711263.1	11420654 NT	E-124 Y11717.1	1.0E-124 BE271295.1	E-124 BE271295.1	E-124 AA630331.1	4506654 NT	1.0E-124 AW612106.1	E-124 AW612106.1	1.0E-124 AI789864.1	E-124 AI 799864.1	E-124 AV645633.1	E-124 AV645633.1	1.0E-124 AF022655.1	1.0E-124 AF022855.1	1.0E-124 AI767133.1	E-124 AI767133.1	E-124 AW 503755.1	A CABACACA A
	Most Similar (Top) Hit BLAST E Value	1.0E-124	1.0E-124	1.0E-124	1.0E-124	1.0E-124	1.0E-124	1.0E-124	1.0E-124	1.0E-124	1.0E-124	1.0E-124	1.0E-124	1.0E-124	1.0E-124	1.0E-124	1.0E-124	1.0E-124	1.0E-124	1.0E-124	1.0E-124	1.0E-124	1.0E-124	1.0E-124	1.0E-124	1.0E-124	1.0E-124	1.0E-124	1.0E-124	1.0E-124	1.0E-124	1 0E-124
	Expression Signal	3.15	1.73	0.72	0.72	99:0	8.0	2.18	1.29	0.87	10.59	1.05	6.57	0.88	0.9	3.45	1. 2.	1.23	1.15	18.99	1.45	1.45	1.42	1.42	2.52	2.52	1.14	1.14	8.22	8.22	1.68	2 24
	ORF SEQ ID NO:	26996	27253	28624	28625	29034	29196	29884		30244		31199	31408	31701	31959	32493	32571	32572	32850	33855	33861	33862	34560	34561	34868	34869	34954	34855	34984	34985	35269	38770
	Exon SEQ ID NO:	14439	14685	16142	16142	16585		17433	17641	17819	18135	18478	18687	18924	19161	19654		19723	20074	20742	20839	20939	<u> </u>	21625	21920	21920			1		22283	23718
	Probe SEQ ID NO:	1851	2107	3537	3537	3967	4150	4855	5068	5256	5501	5852	6048	6317	6563	7083	7191	7181	7555	8201	8399	8389	6806	6806	9411	9411	9498	9498	9226	9526	9785	11213

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Single Exon Probes Expressed in Petal Liver	Top Hit Descriptor	Homo sapiens collagen type XI alpha-1 (COL11A1) gene, exon 63	Homo sapiens collagen type XI alpha-1 (COL11A1) gene, exon 63	yx78c06.r1 Soares melanocyte 2NbHM Homo sapiens cDNA clone IMAGE:287850 5'	zx68603.r1 Soares_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:798444 5' similar to TR:G1145880 G1145880 TITIN ;	Homo sapiens mRNA for KIAA1525 protein, partial cds	Homo saplens mRNA for KIAA 1525 protein, partial cds	Homo saplens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds	Homo saplens ciliary dynain heavy chain 9 (DNAH9) mRNA, complete cds	Homo sapiens mRNA for KIAA1294 protein, partial cds	Homo saplens mRNA for KIAA1294 protein, partial cds	Human mRNA for ankyrin (variant 2.1)	ne74b12.s1 NCI_CGAP_Ew1 Homo sapiens cDNA clone IMAGE:909983 similar to SW:TSG6_HUMAN P98098 TUMOR NECROSIS FACTOR-INDUCIBLE PROTEIN TSG-8 PRECURSOR;	Homo saplens neuro-oncological ventral antigen 1 (NOVA1), splice variant 1, mRNA	Human macrophage mannose receptor (MRC1) gene, exon 5	602139138F1 NIH_MGC_46 Hamo sapiens cDNA clone IMAGE:4298240 5	601149404F1 NIH_MGC_19 Hamo saplens cDNA clone IMAGE:3502129 5:	H.sapiens DNA for liver cytochrome b5 pseudogene	601577981F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3926685 5'	Homo saplens mRNA for casein kinese I epsilon, complete cds	Homo sapiens mRNA for casein kinase I epsilon, complete cds	Homo sapiens mRNA for casein kinase I epsilon, complete cds	Homo saplens mRNA for casein kinase I epsilon, complete cds	Homo sapiens DNA for amyloid precursor protein, complete cds	Homo sapiens DNA for amyldid precursor protein, complete cds	Homo saplens intersectin short isoform (ITSN) mRNA, complete cds	Homo saplens lost on transformation LOT1 mRNA, complete cds	Homo sapiens ubiquitin specific protease 8 (USP8) mRNA	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 1 (LILRA1). mRNA	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 1 (LILRA1), mRNA
Exon Probes	Top Hit Database Source	Z	١	EST_HUMAN	EST HUMAN	Į.	Z	NT	NT	NT	IN	LΝ	EST HUMAN	4505424 NT	12	EST_HUMAN	EST_HUMAN	N	EST_HUMAN	TN	NT	NT	NT	NT	IN	ΝΤ	NT	TN	'n	TN
eibuis	Top Hit Acession No.	1.0E-126 AF101108.1	AF101108.1	1.0E-126 N34078.1	1.0E-126 AA460075.1	E-126 AB040958.1	E-126 AB040958.1	E-126 AF257737.1	E-126 AF257737.1	E-126 AB037715.1	1.0E-126 AB037715.1	(16609.1	1.0E-126 AA483368.1	4505424	E-128 M93196.1	1.0E-126 BF683175.1	E-126 BE261660.1		1.0E-126 BE743922.1	1.0E-127 AB024597.1	1.0E-127 AB024597.1	1.0E-127 AB024597.1	1.0E-127 AB024597.1	J87675.1	J87675.1	1.0E-127 AF114488.1	U72621.2	4827053 NT	5803065 NT	5803065 NT
	Most Similar (Top) Hit BLAST E Value	1.0E-126	1.0E-126	1.0E-126	1.0E-126	1.0E-126	1.0E-126	1.0E-128	1.0E-126/	1.0E-126/	1.0E-126	1.0E-128 X16609.1	1.0E-126	1.0E-126	1.0E-128	1.0E-128	1.0E-126	1.0E-126 X53941.1	1.0E-126	1.0E-127	1.0E-127	1.0E-127	1.0E-127	1.0E-127 D87675.1	1.0E-127 D87675.1	1.0E-127	1.0E-127	1.0E-127	1.0E-127	1.0E-127
	Expression Signal	1.03	1.03	1.31	3.46	4.2	4.2	0.85	0.85	0.92	0.92	5.78	0.85	0.52	1.73	3.69	2.32	2.52	8.78	4.5	4.5	2.76	2.76	1.3	1.3	27.2	1.37	1.33	2.81	2.81
-	ORF SEQ ID NO:	29933		29978	31764		31821	32897	32898	33267		33380	33575	35181	36217	36278	36908		30496	25330		25330	25331	25439	25440	26046	26075	26862	27256	27257
	SEQ ID NO:	17477	17477	17536	18984	19035	19035	20032	20032	20361	20361	20471	20665	22209	23204	23263	23844	l	18036			12845	12845	12951	12951	13527	13561	14320	14689	14689
	Probe SEQ ID NO:	4902	4902	4961	6380	6432	6432	7511	7511	7819	7819	7929	8124	9711	10672	10738	11392	11636	12304	183	183	184	184	295	295	914	949	1729	2111	2111

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Probe SEQ 1D NO:	Exen SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
2241	14816		5.62	1.0E-127	4506620		Homo sapiens ribosomal protein L26 (RPL26) mRNA
2381	1	27523		1.0E-127	27 AF245505.1	님	Homo sapiens adlican mRNA, complete cds
2640	1.	L	5.29	1.0E-127	27 X12881.1	N	Human mRNA for cytokeratin 18
3753	1			1.0E-127	27 AF114488.1	N.	Homo sapiens intersectin short isoform (ITSN) mRNA, complete cds
	1						au80e08.yt Schneider fetal brain 00004 Homo septiens cDNA clone IMAGE:2782594 5' similar to TR-015170 D15170 TRANSCRIPTION FACTOR S-II-RELATED PROTEIN ;contains element MER22
3884	16482	28944	0.75	1.0E-127	27 AW161297.1	EST_HUMAN	repetitive element;
4194	L			1.0E-127		NT	Homo sapiens delayed rectifier potassium channel subunit tsK mRNA, complete cds
4303	16889	28332	0.61	1.0E-127	27 AL163247.2	IN	Homo sapiens chromosome 21 segment HS21C047
4340	1_	_	21.24	1.0E-127		L	Homo sapiens neuroblastoma-amplified protein (LOC51594), mRNA
4340	16927	L	21.24	1.0E-127	7706239NT	N	Homo sapiens neuroblastoma-amplified protein (LOC51594), mRNA
4595			99.0	1.0E-127	127 AF252287.1	NT	Homo sapiens cytochrome P450 retinoid metabolizing protein P450RAI-2 mRNA, complete cds
4708	l			1.0E-127	4506384 NT	LN.	Homo sapiens RAD1 (S. pombe) homolog (RAD1) mRNA, and translated products
4738	L_			1.0E-127	27 AL163268.2	TN	Homo sapiens chromosome 21 segment HS21C068
4780	L	29811		1.0E-127	6912639 NT	NT	Homo sapiens Ring1 and YY1 binding protein (RYBP), mRNA
	<u> </u>						za01a10.r1 Soares melanocyte 2NbHM Homo sapiens cDNA clone IMAGE:291258 5' similar to Sw. Pipe, RAT P10688 1-PHOSPHATIDYLINOSITOL-4,5-BISPHOSPHATE PHOSPHODIESTERASE
5884	18506	31232	2.37	1.0E-127	27 W03547.1	EST_HUMAN	DELTA 1;
5912	L				4826863 NT	Z	Homo sapiens neuronal cell adhesion molecule (NRCAM) mRNA
5970	1_	L		1.0E-127	127 X85764.1	IN	H.sapiens NOS2 gene, exon 6
8310	L	L		1.0E-127	127 X84060.1	NT	H.saplens TCF11 gene, exon 3-8
6463	L			1.0E-127	4504778 NT	Į,	Homo sapiens Integrin, beta 8 (ITGB8) mRNA
6764	18357			1.0E-127	11421595 NT	TN	Homo sapiens immunoglobulin superfamily, member 3 (IGSF3), mRNA
7122	ł	L	0.85	1.0E-127	4826977 NT	LN	Homo sapiens realin (RELN) mRNA
7780	1		1.31	1.0E-127	11421914 NT	ΙN	Homo sapiens Pendred syndrome (PDS), mRNA
7760	1			1.0E-127	11421914 NT	۲	Homo sapiens Pendred syndrome (PDS), mRNA
7763	L				27 BF671355.1	EST_HUMAN	602151232F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4292575 5
8820		L			11427235 NT	LZ LZ	Homo saplens Chediak-Higashi syndrome 1 (CHS1), mRNA
8820	上	34286	0.7	1.0E-127	11427235 NT	NT	Homo sapiens Chediak-Higashi syndrome 1 (CHS1), mRNA
9558	22058	35019	4.96	1.0E-1	27 AF274863.1	·	Homo sapiens secretory pathway component Sec31B-1 mRNA, alternatively spliced, complete cds
8558		35020	4.96	1.05	127 AF274863.1	Z	Homo sapiens secretory pathway component Sec31B-1 mRNA, alternatively spliced, complete cds
2070	22285			4 OF.	127 A 298932 1	EST HUMAN	qm94h09.x1 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1896449 3'
5				,			

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Top Hit Descriptor	Homo sapiens Chediak-Higashi syndrome 1 (CHS1), mRNA	Homo sapiens similar to heat shock 70kD protein 9B (mortalin-2) (H. sapiens) (LOC63184), mRNA	Homo sapiens similar to heat shock 70kD protein 9B (mortalin-2) (H. sapiens) (LOC63184), mRNA	601434784F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3919917 5	601434784F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3919917 5'	Homo saplens mRNA for casein kinase I epsilon, complete cds	Homo sapiens mRNA for casein kinase l'epsilon, complete cds	Homo sapiens gene for AF-6, complete cds	Hano sapiens gene for AF-6, complete cds	601278127F1 NIH_MGC_20 Homo saplens cDNA clone IMAGE:3618822 5	Homo saplens chondroitin sulfate proteoglycan 2 (versican) (CSPG2) mRNA	Homo sapiens chondroitin sulfate proteoglycan 2 (versican) (CSPG2) mRNA	Human FAU1P pseudogene, trinucleotide repeat regions	Human FAU1P pseudogene, trinuclectide repeat regions	Homo sapiens ribosomal protein S2 (RPS2) mRNA	Homo sapiens mRNA for KIAA1247 protein, partial cds	Homo sapiens prospero-related homeobox 1 (PROX1), mRNA	H.sapiens gene for inter-alpha-trypsin inhibitor heavy chain H1, exon 12	Homo sapiens phosphodiesterase 1C, calmodulin-dependent (70kD) (PDE1C), mRNA	7q86b10.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE: 3'	Homo sapiens mRNA for KIAA1395 protein, partial cds	Homo sapiens mRNA for KIAA1395 protein, partial cds	ns04s11.r1 NCI_CGAP_Ew1 Homo sapiens cDNA clone IMAGE:1182620 similar to TR:G951338 G951338 GHROMOSOME SEGREGATION GENE HOMOLOG CAS.;	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2D (GRIN2D), mRNA	om68h08.s1 NCL CGAP_GC4 Homo sapiens cDNA clone IMAGE:1552383 3' similar to gb:X54941 CYCLIN. DEPENDENT KINASES REGULATORY SUBUNIT 1 (HUMAN);	EST367360 MAGE resequences, MAGC Homo sapiens cDNA	insulin-like growth factor binding protein-2 (human, placenta, Genomic, 1019 nt, segment 2 of 4)	insulin-like growth factor binding protein-2 [human, placenta, Genomic, 1019 nt, segment 2 of 4]	Novel human mRNA containing Zinc finger C2H2 type domains	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
Top Hit Detabase Source				EST_HUMAN 6	EST_HUMAN 6	⊥N ⊥N	TN TN	T	TN T	EST_HUMAN 6	-IN			TN T		Ę		F		EST_HUMAN 7	TN TN	NT I	T_HUMAN		EST_HUMAN D	EST_HUMAN E	Г	TN TN	NT TN	T B
Top Hit Acession No.	11427235 NT	11417339 NT	11417339 NT	127 BE895415.1	-127 BE895415.1	127 AB024597.1	-127 AB024597.1	-127 AB011399.1	.127 AB011399.1	-128 BE385617.1	4758081	4758081 NT	-128 U02523.1	-128 U02523.1	4506718 NT	-128 AB033073.1	11426673 NT		11420965 NT	1.0E-128 BF224345.1	-128 AB037816.1	-128 AB037816.1	1.0E-128 AA639198.1	11425254 NT	-128 AA926959.1	1.0E-128 AW955290.1		-129 537722.1	-129 AL096880.1	1.0E-129 AF240786.1
Most Similar (Top) Hit BLAST E Value	1.0E-127	1.0E-127	1.0E-127	1.0E-127	1.0E-127	1.0E-127	1.0E-127	1.0E-127	1.0E-127	1.0E-128	1.0E-128	1.0E-128	1.0E-128	1.0E-128	1.0E-128	1.0E-128	1.0E-128	1.0E-128 X69539.1	1.0E-128	1.0E-128	1.0E-128	1.0E-128	1.0E-128	1.0E-128	1.0E-128	1.0E-128	1.0E-129 S37722.1	1.0E-129	1.0E-129	1.0E-129
Expression Signal	2.25	6.54	6.54	1.9	1.9	1.43	1.43	1.7	2.23	2.44	1	1	4.14	4.14	18.53	1.14	5.43	6.97	2.08	8.01	0.75	0.75	1.62	5.48	5.15	4.37	12.06	14.64	2.48	1.62
ORF SEQ ID NO:	35730	36585					25331	30962		25605				27261			29804	31086		32328	33659	33660	35535	36137	36145			25568		26896
Exan SEQ ID NO:		23551		!	23939	12845	12845	24464							14824	16049	17352	18360				20747	22538	23123	23131	24244	13071	13071	14346	14351
Probe SEQ ID NO:	10245	11037	11037	11490	11490	12046	12046	12253	12620	485	1195	1195	2115	2115	2250	3441	4771	5734	6550	7010	8206	8206	10043	10588	10597	11905	127	438	1756	1761

WO 01/57277

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J			Т	Т	Т	Т	Г	Γ	Т		Г	Г	Γ	Г	Г	Г	Γ	Γ	T	T	Ţ	Γ	Г	Г	Г	Г	Г	Г	Г			Γ
ביישני ביישני ביישני ביישני ביישני ביישני ביישני ביישני ביישני ביישני ביישני ביישני ביישני ביישני ביישני ביישני	Top Hit Descriptor	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds	Homo saplens zinc finger protein 76 (expressed in testis) (ZNF76), mRNA	ZINC FINGER PROTEIN HZF10	ZINC FINGER PROTEIN HZF10	ZING FINGER PROTEIN HZF10	Homo sapiens mRNA for KIAA1459 protein, partial cds	CMYA5 Human cardiac muscle expression library Homo sapiens cDNA clone 4151935 similar to CMYA5 Cardiomyopathy associated cene 5	CMYA5 Human cardiac muscle expression library Homo sapiens cDNA clone 4151935 similar to CMYA5	Cardiomyopathy associated gene 5	Homo sapiens KVLQT1 gene	Homo sapiens KVLQT1 gene	Homo sapiens similar to ribosomal protein S26 (H. sapiens) (LOC63694), mRNA	Homo sapiens WSCR4 gene, exons 3 and 4	Homo saplens WSCR4 gene, exons 3 and 4	Homo sapiens mRNA for KIAA0634 protein, partial cds	Homo sapiens solute carrier family 21 (organic anion transporter), member 9 (SLC21A9), mRNA	Hamo sapiens solute carrier family 21 (arganic anion transparter), member 9 (SLC21A9), mRNA	a72/07.r1 Soares_NHHMPu_S1 Homo sapiens cDNA clone IMAGE:1047589 5	Homo sapiens similar to ribosomal protein S26 (H. sapiens) (LOC63694), mRNA	949c05.rl Soares fetal liver spleen 1NFLS Homo septiens cDNA clone IMAGE:199112 5' similar to SP:848150 B48150 HP-25=HIBERNATION-RELATED PROTEIN - TAMIAS ASIATICUS=ASIAN	DKFZp762K171_r1 762 (synonym: hmel2) Homo sapiens cDNA clone DKFZp762K171 5'	Homo sapiens hypothetical protein (HSPC242), mRNA	Homo sapiens mRNA for KIAA1414 protein, partial ods	601121995F1 NIH_MGC_20 Home sapiens cDNA clone IMAGE:3346366 5	601121995F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3346366 5	Human gene for catalase (EC 1.11.1.6) exon 9 mapping to chromosome 11, band p13	Homo sapiens candidate taste receptor T2R16 (T2R16), mRNA	Homo sapiens RET finger protein-like 1 antisense transcript, partial	601343016F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3885466 5'	601343016F1 NIH_MGC_53 Home saplens cDNA clone IMAGE:3685466 5'	Homo sapiens retinol dehydrogenase homotog Isoform-1 (RDH) mRNA, complete cds
TOTAL I LODGE	Top Hit Detabase Source	LN	NT	SWISSPROT	SWISSPROT	SWISSPROT	LN	FST HIMAN		EST_HUMAN	NT	NT	IN	LN	N	LN T	N _T	LN	EST_HUMAN		EST HUMAN	EST_HUMAN	NT	NT	EST_HUMAN	EST_HUMAN	NT	NT	TN	EST_HUMAN	EST_HUMAN	NT
Signo	Top Hit Acessian No.	1.0E-129 AF240786.1	11418522 NT	214585	214585	214585	1.0E-129 AB040892.1	1 0E-129 AW755254 1		1.0E-129 AW755254.1	1.0E-129 AJ008345.1	1,0006345.1	11420850 NT	1.0E-129 AF041056.1	E-129 AF041056.1	E-129 AB014534.1	11437282 NT	11437282 NT	1.0E-129 AA625526.1	11420850 NT	183155.1	E-129 AL120739.1	7705530 NT	1.0E-130 AB037835.1	1.0E-130 BE275192.1	1.0E-130 BE275192.1	(04092.1	8394394 NT	1.0E-130 AJ010230.1			1.0E-130 AF240698.1
	Most Similar (Top) Hit BLAST E Value	1.0E-129	1.0E-129	1.0E-129 Q14585	1,0E-129 Q14585	1.0E-129 Q14585	1.0E-129	1 0E-129 /		1.0E-129	1.0E-129/	1.0E-129 AJ006345.1	1.0E-129	1.0E-129	1.0E-129 /	1.0E-129	1.0E-129	1.0E-129	1.0E-129	1.0E-129	1.0E-129 H83155.1	1.0E-129	1.0E-130	1.0E-130	1.0E-130	1.0E-130	1.0E-130 X04092.1	1.0E-130	1.0E-130 /	1.0E-130	1.0E-130 E	1.0E-130/
	Expression Signal	1.62	2.2	1.41	1,41	1.41	1.95	2.57		2.57	4.78	4.38	14.44	0.78	0.78	3.93	1.18	1.18	3.34	11.7	2.32	2.07	1.85	1.23	8.52	8.52	4.6	1.69	7.47	1.17	1.17	96.0
	ORF SEQ ID NO:	26897	27029			28246		29394		29395	31620	32581	32626		32929		35473	35474	36652	32626			25239		26836	26837					27990	28716
	Exan SEQ ID NO:	14351	14471	15778		l,	16832	16954		16954	18850	19713	19770	20055	20055	20801	1	22486	23812	19770	24235	24494	12757	13812	14299	14299	14609	14705	15351	ı		16240
	Probe SEQ ID NO:	1781	1886	3162	3162	3162	4244	4367		4367	6241	7181	7241	7535	7535	8280	9891	1666	11102	11177	11892	12297	80	1212	1708	1706	2027	2127	2799	2803	2903	3637

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Single Exon Probes Expressed in Fedal Liver	Top Hit Descriptor	601343016F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3685486 5'	601343016F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3685466 5'	UI-HF-BN0-aky-g-06-0-UI.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078731 51	Human T-cell receptor (V alpha 22.1, J alpha RPMi4265-variant, C alpha 1) mRNA	CM4-CN0045-180200-511-f02 CN0045 Homo sapiens cDNA	RC0-CT0318-201199-031-a11 CT0318 Homo sapiens cDNA	RC0-CT0318-201199-031-a11 CT0318 Homo sapiens cDNA	CMO-CN0045-170200-225-g03 CN0045 Homo sapiens cDNA	CMO-CN0045-170200-225-g03 CN0045 Homo sapiens cDNA	Homo saplens estrogen-responsive B box protein (EBBP), mRNA	Homo sapiens solute carrier family 6 (neurotransmitter transporter, L-proline), member 7 (SLO8A7), mRNA	Homo sapiens aurora-related kinase 1 (ARK1) mRNA, complete cds	EST368312 MAGE resequences, MAGD Homo saplens cDNA	Homo sapiens mRNA for KIAA1335 protein, partial cds	xd36e06,x1 NCI_CGAP_Ov23 Homo sapiens cDNA clone IMAGE:2595874 3'	zr58c04,r1 Soares_NhHMPu_S1 Hamo sapiens cDNA clone (MAGE:867590 5' similiar to TR:G222811 G222811 ALPHA 1 CHAIN OF TYPE XII COLLAGEN :	zz 8604 r1 Soares_NhHMPu_S1 Homo saplens cDNA clone IMAGE:867590 5' similar to TR:G222811 G222811 ALPHA 1 CHAIN OF TYPE XII COLLAGEN.;	Homo sapiens checkpoint suppressor 1 (CHES1), mRNA	Homo sapiens hypothetical protein FLJ20371 (FLJ20371), mRNA	Homo sapiens hypothetical protein FLJ20371 (FLJ20371), mRNA	Homo sapiens DCRR1 mRNA, partial cds	Homo sapiens DCRR1 mRNA, partial cds	Homo sapiens beta-tubulin mRNA, complete cds	Homo sapiens Cdc42 effector protein 2 (CEP2), mRNA	Human heparin cofactor II (HCF2) gene, exons 1 through 5	Human heparin cofector II (HCF2) gene, exons 1 through 5	Homo sapiens RNA-binding protein S1, serine-rich domain (RNPS1), mRNA	Homo sapiens mRNA for multidrug resistance protein 3 (ABCC3)	Homo sapiens mRNA for multidrug resistance protein 3 (ABCC3)	HUM516H08B Human placenta polyA+ (TFujiwara) Homo sapiens cDNA clone GEN-516H08 5'	HUM516H08B Human placenta polyA+ (TFujiwara) Homo sapiens cDNA clone GEN-516H08 5'
EXOII Probes EX	Top Hit Database Source	EST_HUMAN 60	EST_HUMAN 60	EST_HUMAN UI-		EST HUMAN CN	EST_HUMAN RC	Г	EST_HUMAN CN	EST_HUMAN CA			N H	EST_HUMAN ES	NT	EST_HUMAN xd:	EST_HUMAN G2	EST HUMAN G2				NT Ho	NT TN	NT Ho		NT TN				\Box		EST_HUMAN HU
aignic	Top Hit Acession No.		130 BE564219.1	130 AW 503580.1		130 AW843993.1	1.0E-130 AW363299.1			1.0E-130 AW843875.1	11425446 NT	11416777 NT	130 AF008551.1	130 AW 956242.1	130 AB037756.1	30 AW 103454.1	-00 AA228126.1	+00 AA228126.1	35136	8923349 NT	8923349 NT	+00 D83327.1		+00 AF141349.1	5802997		+00 M58600.1	3857825				+00]D78804.1
	Most Similar (Top) Hit BLAST E Value	1.0E-130	1.0E-130	1.0E-130	1.0E-130	1.0E-130	1.0E-130	1.0E-130,	1.0E-130	1.0E-130	1.0E-130	1.0E-130	1.0E-130	1.0E-130		1.0E-130	0.0E+00	0.0E+00		0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 M58600.1	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	Expression Signal	5.82	5.82	1.56	1.18	6	1.11	1.11	0.74	0.74	0.7	2.1	96.0	4.06	1.97	0.78	2.27	2.27	1.56	2.85	2.85	4.29	4.29	30.44	38.86	23.21	7.78	4.41	8.23	8.23	F	1
	ORF SEQ ID NO:	27989	27990			28672	30248		L	32397	32411	32687					25140	25141	25145		L	25160				25178						25217
	Exon SEQ ID NO:	15520	15520	16608	L	17219			19569	19569	19582	19829	21155	21292	21676	22344	12684	12684	L			12703		12708					. '			12742
	Probe SEQ ID NO:	3831	3831	4010	4147	4636	5258	5258	6910	6910	6923	7301	8616	8753	9141	9846	4	4	8	17	41	24	24	29	37	39	42	44	61	61	ន	8

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Top Hit Database Source	П	EST HUMAN C48607.x1 Jis bone marrow stoms Homo sapiens cONA clone HBMSC C48607.3	Г	Human von Willebrand factor pseudogene corresponding to exons 23 through 34	Homo saplens protein tyrosine phosphatase, non-receptor type substrate 1 (PTPNS1) mRNA	Homo sapiens protein tyrosine phosphatase, non-receptor type substrate 1 (PTPNS1) mRNA	Homo septens protein tyrosine phosphatase, non-receptor type substrate 1 (PTPNS1) mRNA	T Homo saplens protein tyrosine phosphatase, non-aceptor type substrate 1 (PTPNS1) mRNA	Homo saplens amiloride binding protein 1 (amine oxidase (copper-containing)) (ABP1), nuclear gene encoding mitochondrial protein, mRNA			NT Human polyhomeotic 1 homolog (HPH1) mRNA, partial cds	EST_HUMAN HA1347 Human fetal liver cDNA library Homo sapiens cDNA	Homo sapiens mRNA for KIAA1363 protein, partial cds	H.sapiens ncx1 gene (exon 2)	(1838b05,x1 NC]_CGAP_UM Homo sapiens cDNA clone IMAGE:2230833 3' similar to TR:Q89551 Q89551 EST_HUMAN MITOCHONDRIAL TRANSCRIPTION TERMINATION FACTOR PRECURSOR;	[1538b05.x1 NC]_CGAP_Ut4 Homo sapiens cDNA done IMAGE.2230833 3' similar to TR:Q99551 Q99551 EST_HUMAN MITOCHONDRIAL TRANSCRIPTION TERMINATION FACTOR PRECURSOR;		EST_HUMAN yy01h09.r1 Soares melanocyte 2NbHM Homo sapiens cDNA clone IMAGE:270017 5'		IT Homo sapiens polymerase (RNA) II (DNA directed) polypeptide A (220kD) (POLR2A) mRNA	IT Homo sapiens polymerase (RNA) II (DNA directed) polypeptide A (220/D) (POLR2A) mRNA		EST_HUNAN ye83g04.12 Strategene fetal spleen (#937205) Homo sapiens cDNA clone IMAGE: 68310 5'	EST_HUMAN ya83g04.r2 Stratagene fetal spleen (#837205) Homo sapiens cDNA cione IMAGE:88310 5		EST_HUMAN 601460375F1 NIH_MGC_86 Homo sapiens cDNA clone IMAGE:3863803 5'			EST_HUMAN 601174270F1 NIH_MGC_17 Homo saplens cDNA clone IMAGE:3529864 5'
Top Patabe									_			L.	ST HUN			T_HUN	ST_HUN	ST_HUN	ST_HUN	Ţ	11	<u>⊢</u>	Τ	ST HUN	ST_HUN	T	EST HUN	N	Ι	EST HUN
	N C	T		L.1	4758977 NT	4758977 NT	4758977 NT	4758977 NT	4501850 NT	4504444 NT	5016088 NT		1.1	84.1 NT	IN NT					4505458 NT	4505938 NT	4505938 NT	4503680			4504444 NT		450444 NT		73.1
Top Hit Acession No.	N C	T											1.1										4503680		T56945.1			4504444		BE295973.1
	N C	0.0E+00 AW069534.1 EST	0.0E+00 M60676.1	0.0E+00 M60676.1	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 4501850 N			U89277.1	0.0E+00 AI114743.1	0.0E+00[AB037784.1	0.0E+00 X91213.1 NT	0.0E+00 AI623701.1 ES	0.0E+00 AI623701.1	+00 N36040.1	+00 N36040.1		+00	0.0E+00	0.0E+00 4503680	0.0E+00 T56945.1	0.0E+00 T56945.1	0.0E+00 450444 N	0.0E+00 BF036881.1	0.0E+00 4504444		0.0E+00[BE295973.1
milar Hit Top Hit Acession T E No.	+00 L16558.1 NT	0.0E+00 AW069534.1	+00 M60676.1	+00 M60676.1		0.0E+00	+00	+00		0.0E+00	0.0E+00	0.0E+00 U89277.1	0.0E+00 AI114743.1	0.0E+00 AB037784.1	+00 X91213.1		+00 AI623701.1	0.0E+00 N36040.1	0.0E+00 N36040.1	0.0E+00	0.0E+00	0.0E+00	0.0E+00 4503680	0.0E+00[T56945.1	0.0E+00 T56945.1			0.0E+00	0.0E+00 AF111168.2	1.22 0.0E+00 BE295973.1
Most Similar (Top Hit Acession BLAST E No.	28.22 0.0E+00 L16558.1 NT	25222 11.83 0.0E+00 AW069534.1	25226 0.8 0.0E+00 M60676.1	0.85 0.0E+00 M60676.1	0.0E+00	3.66 0.0E+00	1.9 0.0E+00	0.0E+00	0.0E+00	38.11 0.0E+00	0.0E+00	28.23 0.0E+00 U89277.1	2.29 0.0E+00 AI114743.1	2.19 0.0E+00 AB037784.1	0.0E+00 X91213.1	0.0E+00 Al623701.1	0.0E+00 AI623701.1	0.0E+00 N36040.1	2.64 0.0E+00 N36040.1	1.12 0.0E+00	3.85 0.0E+00	3.85 0.0E+00[0.8 0.0E+00 4503680	0.85 0.0E+00/T56945.1	0.85 0.0E+00 T56945.1	0.0E+00	0.0E+00 BF036881.1	92.51 0.0E+00	0.75 0.0E+00 AF111168.2	1.22
Most Similar Expression (Top) Hit Top Hit Acession Signal BLAST E No.	28.22 0.0E+00 L16558.1 NT	11.83 0.0E+00 AW069534.1	25226 0.8 0.0E+00 M60676.1	0.85 0.0E+00 M60676.1	3.66 0.0E+00	25238 3.66 0.0E+00	25237 1.9 0.0E+00	1,9 0.0E+00	0.85 0.0E+00	38.11 0.0E+00	37.46 0.0E+00	28.23 0.0E+00 U89277.1	25263] 2.29 0.0E+00 Al114743.1	25264 2.19 0.0E+00 AB037784.1	0.64 0.0E+00 X91213.1	1.98 0.0E+00 Al623701.1	2.44 0.0E+00 A1623701.1	25275 2.64 0.0E+00 N36040.1	2.64 0.0E+00 N36040.1	. 25281 1.12 0.0E+00	25289 3.85 0.0E+00	25290] 3.85 0.0E+00[25552 0.8 0.0E+00 4503680	25297] 0.85 0.0E+00[T56945.1	0.85 0.0E+00 T56945.1	0.0E+00	2.64 0.0E+00 BF036881.1	92.51 0.0E+00	25320 0.75 0.0E+00 AF111168.2	1.22

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Table 4
Single Exon Probes Expressed in Fetal Liver

	Top Hit Descriptor	601174270F1 NIH_MGC_17 Hamo sapiens cDNA clone IMAGE:3529864 5'	2262b05.r1 Soares_fetal_heart_NbHH19W Homo sapiens cDNA clone IMAGE:345201 5' similar to one X16282 c4st 7INC FINGER PROTEIN CLONE 647 /HI IMAN V	OV3+T10457-140200-088-d04 HT0457 Homo sepiens cDNA	OV3-HT0457-140200-088-d04 HT0457 Homo sapiens cDNA	Homo sapiens zinc finger protein mRNA, complete cds	Homo sapiens chromosome 21 segment HS21C002	Homo sapiens chromosome 21 segment HS21C002	bb24e12.y1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:2963854 5' similar to WP:Y57A10A.Z CE22631 ;	bb24e12.y1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:2963854 5' similar to WP:Y57A10A.Z	CEZZEST ;	Homo sabiens mixINA for NIAAU/64 protein, partial cds	Homo saplens mRNA for KIAA0784 protein, partial cds	Homo saplens mRNA for KIAA0784 protein, partial cds	Homo sapiens mRNA for KIAA0784 protein, partial cds	Human gamma-cytoplasmic actin (ACTGP9) pseudogene	Homo sapiens CTCL tumor antigen se14-3 mRNA, complete cds	Homo sapiens CTCL tumor antigen se14-3 mRNA, complete cds	Homo sapiens chromosome X MSL3-2 protein mRNA, complete cds	Homo sapiens chromosome X MSL3-2 protein mRNA, complete cds	tq04(08.xt NCI_CGAP_Ut3 Homo sapiens cDNA clone IMAGE:2207847.3' similar to gb:J03191 PROFILIN I (HUMAN);	tq04f08.x1 NCI_CGAP_Ut3 Hamo saplens cDNA clone IMAGE:2207847 3' similar to gb:J03191 PROFILIN I	(HUMAN);	Homo sapiens DNA mismatch repair protein (MLH3) gene, complete cds	Homo sapiens ribosomal protein L31 (RPL31) mRNA	Homo sapiens TADA1 protein mRNA, complete cds	Homo sapiens mRNA for KIAA0721 protein, partial cds	Homo sapiens mRNA for KIAA0721 protein, partial cds	Mus musculus testis-specific protein, Y-encoded-like (Tspyl), mRNA	TCBAP1E4468 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project≂TCBA Homo sapiens cDNA clone TCBAP4466
	Top Hit Database Source	EST HUMAN	NAMIN TO	Ţ	Т	Т	L	-	EST_HUMAN	Г	HUMAN			LN	LN		IN			LN	HUMAN	Г	EST HUMAN	LN		LN		NT	NT	EST_HUMAN
	Top Hit Acession No.	E+00 BE295973.1	E+00 W 73073 1	Τ	Τ	0.0E+00 AF244088.1						١							0.0E+00 AF167174.1						0.0E+00 4508632 NT				687844 NT	0.0E+00 BE246780.1
Most Similar		0.0E+00	00+300	0.05+00	0 OF +00	0.0E+00/	0.0E+00	0.0E+00	0.0E+00		0.0E +00.1	0.0E+001	0.0E+00/	0.0E+00	0.0E+00/	0.05+00	0.0E+00	0.0E+00	0.0E+00/	0.0E+00	0.0E+00		0.0E+00	0.0E+00/	0.0E+00	0.0E+00	0.0E+00	0.0E+00/	0.0E+00	0.0E+00
	Expression Signal	0.84	24.6	0 77	0.77	1.97	24.45	24.45	4.25		4.25	2.9	2.9	1.68	1.68	92.14	4.7	4.7	8.92	8.92	33.35		33.35	1.91	44.25	88.8	2.64	1.99	3.13	0.78
	ORF SEQ ID NO:	25321	24300		25324	25325	25328	25329	25336					25342			25360	25361	25363	25364	25371		25372	25374			25382		25383	25387
	SEO ID	12838	4 7830	12840	12840	12841	12844	12844	12853		12853	12858	12858	12859	12859	12869	12874	12874	12876	12876	15410		15410	12887		12892	ľ		12900	12908
	SEQ ID NO:	176	14.	178	178	179	182	182	193	3	193	198	198	199	199	208	213	213	215	215	225		225	227	231	232	239	240	241	248

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
248	12908	25388	82.0	90.0E	+00 BE246780.1	EST_HUMAN	TCBAP1E4489 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP4486
248	12908	25389	87.0	30.0E	+00 BE246780.1	EST_HUMAN	TCBAP1E4466 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project≔TCBA Homo saplens cDNA clone TCBAP4466
256	12916		0.97	0.0E+00	+00 AB018301.1	ΙN	Homo sapiens mRNA for KIAA0758 protein, partial cds
258	12916	25401	76.0	0.0E+00	+00 AB018301.1	N	Homo sapiens mRNA for KIAA0758 protein, partial ods
259		25405	9.57	0.0E+00	5453805 NT	۲	Homo sapiens NS1-associated protein 1 (NSAP1) mRNA
261	12920		11.16		0.0E+00 AL163201.2	NT.	Homo sapiens chromosome 21 segment HS21C001
268		25411	4.93	00+30.0		LN	Homo sapiens chromosome 21 unknown mRNA
270				0.0E+00	0.0E+00 X89772.1	NT	H. saplens mRNA for interferon alpha/bela receptor (long form)
278			7.37		AF231919.1	LN	Homo sapiens chromosome 21 unknown mRNA
291					4507500 NT	LN	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
291		25434			4507500 NT	N	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
293					7706028 NT	ĮN	Homo sapiens hypothetical protein (LOC51250), mRNA
304	12959		2.01	00+30'0	+00 D83327.1	۲N	Homo sapiens DCRR1 mRNA, partial cds
305			2.17	00+30'0	D83327.1	LN L	Homo saplens DCRR1 mRNA, partial cds
305		25450	2.17	0.0E+00	D83327.1	IN	Homo sapiens DCRR1 mRNA, partial cds
306	12961		1.14	0.0E+00	+00 AW 845293.1	EST_HUMAN	IL2-CT0031-181199-020-B03 CT0031 Homo sapiens cDNA
315		25457	66.3		4557029 NT	LΝ	Homo sapiens polassium inwardly-ectflying channel, subfamily J, member 15 (KCNJ15) mRNA
315	12969	25458	6:38		4557029 NT	TN	Homo sapiens potassium inwardly-ectifying channel, subfamily J, member 15 (KCNJ15) mRNA
326	12980	25468	8.1	0.0E+00	AB028942.1	LN	Homo saplens mRNA for KIAA1019 protein, partial cds
327		25469	4.44	0.00+00	+00 AB028942.1	LN	Homo sapiens mRNA for KIAA 1019 protein, partial cds
328	15413		23.15		4506728 NT	۲N	Homo sapiens ribosomal protein S5 (RPS5) mRNA
							Homo sapiens phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthelase,
329		25470	0.99		4503914 NT	NT	phosphoribosylaminoimidazole synthetase (GART) mRNA
330	12983		2.5	0.0E+00	AA480002.1	EST_HUMAN	zv18c06.r1 Soares_NhHMPu_S1 Homo sapiens cDNA clone IMAGE:753994 5'
331		25471	18.8	0.0E+00			Homo sapiens SON DNA binding protein (SON) mRNA
332		25471	19.33	00+30'0	4507152 NT	ΝT	Homo sapiens SON DNA binding protein (SON) mRNA
336		25475	3.18	0.0E	AF114488.1	TN	Homo sapiens intersectin short isoform (ITSN) mRNA, complete cds
348		25484	1.64	00+30'0		SWISSPROT	TRANSCRIPTION REGULATOR PROTEIN BACH1 (BTB AND CNC HOMOLOG 1) (HA2303)
349	13000	25485	1.64	0.0E+00		SWISSPROT	TRANSCRIPTION REGULATOR PROTEIN BACH1 (BTB AND CNC HOMOLOG 1) (HA2303)
350		25486	6	0.0E+00	7657213 NT	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
351	13001	25486		0.0E+00	7657213 NT	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA

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					3.6		
Probe SEQ ID NO:	SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
453	13087	25580	1.82	0.0E+00	4503914 NT	NT	Homo sapiens phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetase, phosphoribosylaminoimidazole synthetase (GART) mRNA
454			2		4506728 NT	LΝ	Homo sapiens ribosomal protein S5 (RPS5) mRNA
455	L	25581	5.49		AB028942.1		Homo sapiens mRNA for KIAA1019 protein, partial cds
458	13090	25582	10.07	0.0E+00	4507152 NT		Homo sapiens SON DNA binding protein (SON) mRNA
458	L		10.07	0.0E+00	4507152	NT	Homo sapiens SON DNA binding protein (SON) mRNA
457	13091		5.34			NT	Mus musculus truncated SON protein (Son) mRNA, complete cds
469	13102		0.81		0.0E+00 AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
471	13104	25597	2.98		97878	NT	Homo sapiens interferon gamma receptor 1 (IFNGR1) mRNA
476	13109		0.92			EST_HUMAN	EST27054 Cerebellum II Homo sapiens cDNA 5' end
477	13110		1.1		0.0E+00 BE254447.1	EST_HUMAN	601111520F1 NIH_MGC_16 Hamo sapiens cDNA clone IMAGE:3352348 5
493	13126	25611	4.29	L	14532	NT	Homo sapiens 5-hydroxytryptamine (serotonin) receptor 1B (HTR1B) mRNA
493	L		4.29	0.0E+00	4504532 NT	NT	Homo sapiens 5-hydroxytryptamine (serotonin) receptor 18 (HTR1B) mRNA
499	L	25620	11.34	0.0E+00		NT	Homo sapiens keratin 18 (KRT18) mRNA
499	L	25621	11.34	0.0E+00	4557887 NT	TN.	Homo sapiens keratin 18 (KRT18) mRNA
509			2.62		0,0E+00 AL163248.2	NT	Homo sapiens chromosome 21 segment HS21C046
510	13143	25628	5.1		0.0E+00 AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
510	L			0.0E+	00 AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
519	1		6.04	L	0.0E+00 AB033035.1	TN	Homo sapiens mRNA for KIAA1209 protein, partial cds
521	L	L			0.0E+00 AU132898.1	EST_HUMAN	AU132898 NT2RP4 Homo sapiens cDNA clone NT2RP4000837 5'
529	L_				-00 BE385144.1	EST_HUMAN	601274951F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3615756 5'
530	L				0.0E+00 AW938825.1	EST_HUMAN	PMo-DT0065-130400-002-c06 DT0065 Homo sapiens cDNA
533	L	25645	1.33	0.0E	-00 AL117233.1	ΝΤ	Novel human gene mapping to chomosome 1
534	13165		1.42		8923955 NT	NT	Homo sapiens PC326 protein (PC326), mRNA
538			0.72	0.0E	+00 BF373403.1	EST HUMAN	IL2-FT0159-070800-120-F07 FT0159 Homo sapiens cDNA
545	13176	25656	4.88		0.0E+00 AL163210.2	LN	Homo sapiens chromosome 21 segment HS21C010
552	L		1.31	0.0E	+00 BE081527.1	EST_HUMAN	QV2-BT0635-160400-142-h05 BT0635 Homo saplens cDNA
556	L			O.OE	+00 BF028005.1	EST_HUMAN	601764858F1 NIH_MGC_53 Homo saplens cDNA clone IMAGE:3996998 5
282	L			0.0E	+00 AB040909.1	NT	Homo sapiens mRNA for KIAA1476 protein, partial cds
585	L		14.24	0.0E+00	6006030 NT	NT	Homo sapiens transcription elongation factor B (SIII), polypeptide 1-like (TCEB1L) mRNA
88	1		4.05			NT.	Homo sapiens guanine nucleotide binding protein (G protein), alpha 11 (Gq class) (GNA11) mRNA
266	L.			0.0E+00		NT	Homo sapiens guanine nucleotide binding protein (G protein), alpha 11 (Gq class) (GNA11) mKNA
88		25679	1.36	0.0E+00	8923831 NT	NT	Homo sapiens anillin (LOC54443), mRNA
569	L		0.96	0.0E+00	D 8923831 NT	NT	Homo sapiens anilin (LOC54443), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No	Top Hit Database Source	Top Hit Descriptor
569	13200	25681	96.0	0.0E+00	8923831 NT	N _T	Homo sapiens enillin (LOC54443), mRNA
574	13204		4.55	0.0E+00	+00 AF003528.1	NT	Homo sapiens X-linkad anhidroitic ectodermal dysplasia protain gene (EDA), exon 2 and flanking repeat regions
582	13212	25690	1.45	0.0E+00	+00 AW135324.1	EST_HUMAN	UI-H-BI1-acb-h-04-0-UI.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2713951 3'
592	13222		6.8	0.0E+00	+00 D10083.1	NT	Homo sapiens RGH1 gene, retrovirus-like element
4	42040	05746		00.700		ŀ	Homo sapiens ubiquind-cytochrome c reductase, Rieske Iron-suffur polypeptide 1 (UQCRFS1), nuclear gene
825	13252	\perp		0.05+00	74/47	Z E	eriodang mitocrondrial protein, moray. Human apolinorotein A. I. (Apola.) pana ayon 1
628	13255	25729	2.19	0	+00 BF104898.1	EST HUMAN	601822627F1 NIH MGC 75 Homo sapiens cDNA clone IMAGE 4045447 5'
630	13257		1.8	0.0	3631	1	Hamo sapiens hypothetical protein FLJ20701 (FLJ20701), mRNA
630	13257	25732	1.6	0.0E+00	8923631 NT	Ņ	Homo sapiens hypothetical protein FLJ20701 (FLJ20701), mRNA
631	13257		,	0.0E+00	8923631 NT	N	Homo sapiens hypothetical protein FLJ20701 (FLJ20701), mRNA
631	13257		1.74	0.0E+00	8923631 NT	LΝ	Homo sapiens hypothetical protein FLJ20701 (FLJ20701), mRNA
632	13257		1.81	0.0E+00	8923631 NT	LN	Homo sapiens hypothetical protein FLJ20701 (FLJ20701), mRNA
632	13257			0.0E+00	8923631 NT	NT	Homo sapiens hypothetical protein FLJ20701 (FLJ20701), mRNA
637	13260		0.88	0.0E+00	4501854 NT	IN	Homo sapiens acetyl-Coenzyme A carboxylase beta (ACACB), mRNA
642	13265			0.0E+00		LN	Homo sapiens Smad- and Off-Interacting zinc finger protein mRNA, partial cds
642	13265	25742		0.0E	+00 AF221712.1	NT	Homo sapiens Smad- and Oif-interacting zinc finger protein mRNA, partial cds
630	13273		3.63	90.0E	+00 AF149773.1	LN.	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
652	13275		0.89	0.0E+00	+00 AB037807.1	LΝ	Homo sapiens mRNA for KIAA 1386 protein, partial cds
654	13277		1.8	0.0E	6806918 NT	TN	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
655	13278	25755		0.0E+00		ΙN	Homo saplens low density lipoprotein-related protein 2 (LRP2), mRNA
655	13278			0.0E+00		NT	Homo sepiens low density lipoprotein-related protein 2 (LRP2), mRNA
656	13279			0.0E+00		LN-	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
656	13279		0.73	0.0E+00	6806918 NT	NT	Homo saplens low density lipoprotein-related protein 2 (LRP2), mRNA
663	13287			0.0E+00	+00 AA399486.1	EST_HUMAN	zt80c07.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:726732.5
687	13291	25772	6.55	0.0E+00	+00 D11078.1	TN	Homo sapiens RGH2 gene, retrovirus-like element
671	13295	25775	48.91	0.0E+00	+00 W78811.1	EST HUMAN	zb51b04.r1 Soares fetal liver spleen 1NFLS_S1 Homo sapiens cDNA clone IMAGE:415567 5' similar to gb:A21187 ALPHA-2-MACROGLOBULIN PRECURSOR (HUMAN);
671	13295	25776	48.91	0.0E+00	+00 W78811.1	EST HUMAN	2551b04.r1 Scares_fetal_liver_spleen_1NFLS_S1 Homo sepiens cDNA clone IMAGE:415567 5 similar to ob:A21187 ALPHA-2-MACROGLOBULIN PRECURSOR (HUMAN):
674	13298			0.0E+00	4885526 NT	LN	Homo sapiens novel SH2-containing protein 3 (NSP3) mRNA
681	13305	25788		0.0E+00		N	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 28 (GRIN2B) mRNA
683	13307	Ш	1.7	0.0E+00	5031624 NT	NT	Homo sapiens CCAAT-box-binding transcription factor (CBF2) mRNA

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| Top Hit Descriptor | H.sapiens mRNA for interferon alpha/beta receptor (long form) | Homo sapiens mRNA for KIAA0910 protein, partial cds | Homo sapiens mRNA for KIAA0910 protein, partial cds | Homo sapiens pericentrin (PCNT) mRNA | Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA | Homo saplens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA | Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA | Homo sepiens potassium voltage-gated channel, Isk-related family, member 1 (KCNE1) mRNA | Homo sapiens serine-threonine protein kinase (MNBH) mRNA, complete cds
 | Homo sapiens serine-threonine protein kinase (MNBH) mRNA, complete cds | Horno sapiens serine-threonine protein kinase (MNBH) mRNA, complete cds | Homo sapiens GA-binding protein transcription factor, alpha subunit (60kD) (GABPA), mRNA | Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA | Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA | Homo sapiens sodium/myo-inosital cotransporter (SLC5A3) gene, complete cals

 | Homo saplens mRNA for KIAA1019 protein, partial cds | Homo sapiens mRNA for KIAA1019 protein, partial cds | Homo sapiens SON DNA binding protein (SON) mRNA
 | Homo saplens mRNA for KIAA1019 protein, partial cds | Homo sapiens ribosomal protein S5 (RPS5) mRNA | Homo sapiens mRNA for KIAA0910 protein, partial cds | Homo sapiens mRNA for KIAA0910 protein, partial cds | hj66d07.s1 NCI_CGAP_Pr10 Homo sapiens cDNA clone IMAGE:997453

 | hj66d07.s1 NCL_CGAP_Pr10 Homo sapiens cDNA clone IMAGE:997453
 | 802085579F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4249915 5'
 | Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA | Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA | Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA | Homo sapiens hormonally upregulated new tumor-associated kinase (HUNK), mRNA | Homo sapiens chromosome 21 segment HS21C003 | QV0-BT0703-280400-211-g11 BT0703 Homo sapiens cDNA | QV0-BT0703-280400-211-g11 BT0703 Homo saplens cDNA
 | Homo sapiens chromosome 21 segment HS21C003 | Homo sapiens laminin receptor 1 (67kD, ribosomal protein SA) (LAMR1), mRNA |
| Top Hit
Database
Source | NT | Ę | Z | LZ. | IN | ۲ | TN | TN | NT
 | ۲N | LN
T | IN | Ľ | TN | LN

 | ΤN | LN | TN
 | TN | TN | NT | L | EST_HUMAN

 | EST HUMAN
 | EST_HUMAN
 | TN | TN | LN. | TN | IN | EST_HUMAN | EST_HUMAN
 | N | ĮŅ. | | | | | | | |
| Top Hit Acession
No. | | | | 5174478 | 4507500 | 7657213 | 7857213 | 686 |
 | | | 4503854 | 4507500 | 4507500 |

 | | | 4507152
 | | 36728 | | |

 |
 | 3F677894.1
 | 7657213 | 7657213 | 7657213 | 7857213 | AL 163203.2 | 3E089592.1 | 3E089592.1
 | AL 163203.2 | 4504958 NT |
| Most Similar
(Top) Hit
BLAST E
Value | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00/
 | 0.0E+00 | 0.0E+00/ | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00

 | 0.0E+00/ | 0.0E+00/ | 0.0E+00
 | 0.0E+00/ | 0.0E+00 | 0.0E+00 / | 0.0E+00 / | 0.0E+00/

 | 0.0E+00
 | 0.0E+00
 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00
 | 0.0E+00 | 0.0E+00 |
| Expression
Signal | 2.88 | 2.77 | 2.77 | 9.17 | 8.31 | 1.71 | 2.61 | 2.3 | 1.58
 | 1.58 | 0.95 | 2.8 | 1.98 | 1.96 | 1.72

 | 9 | 9 | 12.68
 | 6.37 | 15.55 | 1.64 | <u>2</u> | 2.12

 | 2.12
 | 6.29
 | 1.67 | 1.67 | 2.03 | 2.03 | 0.95 | 1.84 | 1.84
 | 2.92 | 32.19 |
| ORF SEQ
ID NO: | 25954 | 25958 | 25959 | 25965 | | | | | 25995
 | 25996 | 25997 | | | |

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| Exon
SEQ ID
NO: | 13447 | 13451 | 13451 | 13455 | 13456 | 13473 | 13474 | 13476 | 13481
 | 13481 | 13482 | 13487 | 13490 | 13490 | 13497

 | 13501 | 13501 | 13502
 | 13503 | 13504 | 13508 | 13508 | 13509

 | 13509
 | 13510
 | 13514 | 13514 | 13515 | 13515 | 13537 | 13544 | 13544
 | 13554 | 13563 |
| Probe
SEQ ID
NO: | 830 | 834 | 834 | 839 | 840 | 857 | 828 | 860 | 866
 | 866 | 867 | 872 | 878 | 876 | 883

 | 887 | 887 | 888
 | 889 | 890 | 894 | 894 | 895

 | 895
 | 896
 | 900 | 900 | 901 | 901 | 924 | 931 | 931
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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
954	13566	26079	6.19	0.0E+00		NT	Human protein C inhibitor (PCI-B) mRNA, complete cds
954	13568	26080	6,19	0.0E+00 U35464.1		NT	Human protein C inhibitor (PCI-B) mRNA, complete cds
928	L			0.0E+00	4504958 NT	TN.	Homo sapiens laminin receptor 1 (67kD, ribosomal protein SA) (LAMR1), mRNA
957	13568	26082	269.29	0.0E+00	7.1	NT	Homo sapiens alphe-1-entichymotrypsin precursor, mRNA, partial cds
858	13569	26083	16.83	0.0E+00 S69364.1		NT	protein C inhibitor [human, leukocytes, Genomic, 1216 nt, segment 2 of 5]
928	L	28084	16.83	0.0E+00 S69364.1		NT	protein C inhibitor [human, leukocytes, Genomic, 1216 nt, segment 2 of 5]
928		26085				NT	protein C inhibitor [human, leukocytes, Genomic, 1216 nt, segment 2 of 5]
959	L	28088	12.58			NT	Homo sapiens kallistatin (P14) gene, exons 1-4, complete cds
888	13598		6.0		0.0E+00 M37190.1	NT	Human ras inhibitor mRNA, 3' end
987	13589	26112		+30.0	00 M37190.1	NT	Human ras inhibitor mRNA, 3' end
988	13600	26113			0.0E+00 M37190.1	TN	Human ras inhibitor mRNA, 3' end
686	L				4507430 NT	NT	Homo saplens thyrotrophic embryonic factor (TEF), mRNA
686	13601	26115	1.28	0.0E+00	4507430	LZ	Homo sapiens thyrotrophic embryonic factor (TEF), mRNA
266	15430	26122			A1001948.1	EST_HUMAN	os98e03.s1 NCI_CGAP_GC3 Homo sapiens cDNA clone IMAGE:1613404 3'
266	15430		6.65			EST_HUMAN	os98e03.s1 NCI_CGAP_GC3 Homo saplens cDNA clone IMAGE:1613404.31
666	13610	28125	8.95	00+30'0	7657266 NT	Z	Homo sapiens KIAA0929 protein Msx2 interacting nuclear target (MINT) homolog (KIAA0929), mRNA
1010	13620	26135	2.35		0.0E+00 AB030566.1	TN	Homo sapiens mRNA for PSP24, complete cds
1019	13629		1.58			EST_HUMAN	PM2-GN0014-050900-001-f02 GN0014 Homo sapiens cDNA
1019	13629		1.58		0.0E+00 BF366974.1	EST_HUMAN	PM2-GN0014-050900-001-f02 GN0014 Homo sapiens cDNA
1019	13629	26144	1.56		4.1	EST_HUMAN	PM2-GN0014-050900-001-f02 GN0014 Homo sapiens cDNA
1021	13631	26147		0.0E+		NT	Homo sapiens partial c-fgr gene, exons 2 and 3
1021	13631	26148	2.54		0.0E+00 X52207.1	NT	Homo sapiens partial c-fgr gene, exons 2 and 3
1030	13840			0.0E	4757969	L	Homo sapiens chromodomain protein, Y chromosome-like (CDYL) mRNA
1042			1.69			N-	Human beta-tubulin (TUB4q) gene, complete cds
1043	13652		31.97	L	0.0E+00 U83668.1	NT	Human beta-tubulin (TUB4q) gene, complete cds
1044		L	15.2	0.0E		LN	Human beta-tubulin (TUB4q) gene, complete cds
1047	L			0.0E		LN⊤	Homo sapiens 8q22.1 region and MTG8 (CBFA2T1) gene, partial cds
1048			7.75	0.0E+		TN	Homo sapiens 8q22.1 region and MTG8 (CBFA2T1) gene, partial cds
1052	13659	26170	1.6	0.0E		NT	Homo sapiens 14q32 Jagged2 gene, complete cds; and unknown gene
1053	13659	26170	2.85	0.0E-		NT	Homo sapiens 14q32 Jagged2 gene, complete cds; and unknown gene
1054			2.84	90.0E		LN	Home sapiens 14q32 Jagged2 gene, complete cds; and unknown gene
1055	13860	L		30.0E		LN L	Homo sapiens 14q32 Jagged2 gene, complete cds; and unknown gene
1058		26174		0.0E	+00 7661685 NT	LN	Homo sapiens DKFZP586M0122 protein (DKFZP586M0122), mRNA

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Top Hit Descriptor	Homo sapiens inner membrane protein, mitochondrial (mitofilin) (IMMT), mRNA	aa88g07.s1 Stratagene fetal retina 937202 Homo sapiens cDNA clone IMAGE:838236 3' similar to SW:PRS8_HUMAN P47210 26S PROTEASE REGULATORY SUBUNIT 8 :	EST51124 WATM1 Homo sapiens cDNA clone 51124 similar to DNA-DIRECTED RNA POLYMERASE II alignment Ser and Pro with BLASTx or p)	EST51124 WATMI Homo sapiens cDNA clone 51124 similar to DNA-DIRECTED RNA POLYMERASE II	(alignment Set and Pro with BLAS Ix or p) Homo saplens TRAF family member-associated NFKB activator (TANK) mRNA	Homo sapiens TRAF family member-associated NFKB activator (TANK) mRNA	n FLJ11196 (FLJ11196), mRNA	Homo sapiens heat shock 70kD protein 9B (mortalin-2) (HSPA9B) mRNA	Homo saplens cadherin 6, K-cadherin (fetal kidney) (CDH6) mRNA	Homo saplens cadherin 6, K-cadherin (fetal kidney) (CDH6) mRNA	Homo sepiens hypothetical protein FLJ20695 (FLJ20695), mRNA	n FLJ20695 (FLJ20695), mRNA	Julin 8 (TUBA8 gene)	n FLJ20080 (FLJ20080), mRNA	IkB homolog (ABH), mRNA	protein 3 (DAP3) mRNA	NO115 Homo sapiens cDNA	Homo sapiens potassium channel, subfamily K, member 9 (KCNK9), mRNA	Homo sapiens potassium channel, subfamily K, member 9 (KCNK9), mRNA	inked (PRKX) mRNA	inked (PRKX) mRNA	S27a (RPS27A) mRNA	Homo sapiens hypothetical protein FLJ20309 (FLJ20309), mRNA	2XM, complete cds	2XM, complete cds	Homo saplens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA	Homo saplens Npw38-binding protein Npw8P (LOC51729), mRNA			qb22d10.x1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:1697011 3'
	Homo sapiens inner membrane p	aa86g07.s1 Stratagene fetal retin SW:PRS8_HUMAN P47210 26S	(alignment Ser and Pro with BLASTx or p)	EST51i24 WATM1 Homo sapien	(alignment Ser and Pro with BLAS Ix or p) Homo saplens TRAF family member-asso	Homo sapiens TRAF family mem	Homo sapiens hypothetical protein FLJ11196 (FLJ11196), mRNA	Homo sapiens heat shock 70kD p	Homo saplens cadherin 6, K-cad	Homo sapiens cadherin 6, K-cad	Homo sapiens hypothetical protei	Homo sapiens hypothetical protein FLJ20695 (FLJ20695), mRNA	Homo sapiens mRNA for alpha-tubulin 8 (TUBA8 gene)	Homo sapiens hypothetical protein FLJ20080 (FLJ20080), mRNA	Homo sapiens alkylation repair; alkB homolog (ABH), mRNA	Homo sapiens Death associated protein 3 (DAP3) mRNA	MR0-BN0115-200300-003-h08 BN0115 Homo sapiens cDNA	Homo sapiens potassium channe	Homo sapiens potassium channe	Homo saplens protein kinase, X-linked (PRKX) mRNA	Homo sapiens protein kinase, X-linked (PRKX) mRNA	Homo sapiens ribosomal protein S27a (RPS27A) mRNA	Homo sapiens hypothetical protei	Homo sapiens DNA for Human P2XM, complete cds	Homo sapiens DNA for Human P2XM, complete cds	Homo saplens similar to rat integ	Homo sapiens similar to rat integ	Homo saplens Npw38-binding pr	H.saplens ART4 gene	H.sapiens ART4 gene	qb22d10.x1 Soares_pregnant_ut
Top Hit Database Source	LN L	EST_HUMAN	EST HUMAN		EST_HUMAN	L	ĻΝ	NT	LN	LN⊤	LN	LN	LN	LN	NT	LN	EST_HUMAN	LN	LN	LN	LN	LΝ	LN	LN	LN	LN	LN	LN⊤	NT	LN	EST_HUMAN
Top Hit Acession No.	5803114 NT	0.0E+00 AA458680.1	+00 N43182.1		0.0E+00 N43182.1 ES				4826672 NT		8923624 NT	8923624 NT	AJ24592	TN 78053087		4758117 NT	BE005208.1	7706134 NT	TV06134 NT	TN 4826947 NT	TN 4826947 N	4506712 NT	N 0823280 N		AB002059.1	T657468 NT		1708500 NT	:+00 X95826.1	+00 X95826.1	+00 AI147650.1
Most Similar (Top) Hit BLAST E Value	0.0E+00	0.0E+00	0.0E+00		0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00					0.0E+00	0.0E+00	0.0E+00			0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E	0.0E
Expression Signal	3.66	2.66	0.94		0.94	2.11	2.96	5.51		2.09	3.31	3.31	72.04	1.08	4.16	4.89	2.88	4.25	4.25	1.29	1.29	23.49	1.24	15.95	37.33	6.32	6.32	2.19	1.92	1.92	2.16
ORF SEQ ID NO:	26178		26182		26183						26220		26222				26247		26272		26283		26286		26290			26295			26298
Exen SEQ ID NO:	13667	13668	13671	<u> </u>	13671	13672	13676		13707		13711		13712				13738		13761	13773	13773	13774	13776		13781				13786		13787
Probe SEQ ID NO:	1062	1063	1068		1066	1067	1071	1085	1103	1103	1107	1107	1108	1110	1112	1121	1135	1158	1158	1171	1171	1172	1174	1177	1179	1180	1180	1184	1185	1185	1186

Page 471 of 526 Table 4 Single Exon Probes Expressed in Fetal Liver

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Probe SEQ ID 8 NO:	Exan SEQ ID NO:	ORF SEQ IĢ NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
1720	14312	26851	96.0		0.0E+00 BE222374.1	EST_HUMAN	hu11d05.x1 NCI_CGAP_LU24 Homo sapiens cDNA clone IMAGE:3168281 3' similar to TR:095147 095147 MKP-1 LIKE PROTEIN TYROSINE PHOSPHATASE;
1723	14314	26855	3.60		0.0E+00 H30132.1	EST_HUMAN	yo59e08.r1 Soeres breast 3NbHBst Homo sapiens cDNA clone IMAGE:182246 5' similar to gb:M64099 GAMMA-GLUTAMYLTRANSPEPTIDASE 5 PRECURSOR (HUMAN);
1723	14314	26856	3.69			EST_HUMAN	y559e08.r1 Soeres breast 3NbHBst Horno sepiens cDNA clone IMAGE:182246 5' similar to gb:M64099 GAMMA-GLUTAMYLTRANSPEPTIDASE 5 PRECURSOR (HUMAN);
1725	14316	26858	6.58			TN	H.sapiens H2B/h gene
1725	14316	26859	6.58		0.0E+00 Z80780.1	TN	H.saplens H2B/h gene
1728	14319					LN-	Homo sapiens high-mobility group (nonhistone chromosomal) protein 17 (HMG17), mRNA
1737	14327	26871	4.36		8923841 NT	TN	Homo sapiens FOXJ2 forkhead factor (LOC55810), mRNA
1742	14332				0.0E+00 M75980.1	LN	Human hepatocyte growth factor gene, exon 15
1742	14332		0,92			NT	Human hepatocyte growth factor gene, exon 15
1745	14335	26882			4826973 NT	LN	Homo sapiens RNA binding motif protein, Y chromosome, family 1, member A1 (RBMY1A1) mRNA
1751	14341	26889	3.79			INT	Homo saplens WAVE2 mRNA for WASP-family protein, complete cds
1753	14343					TN	TCR zeta [human, Genomic/mRNA, 365 nt, segment 1 of 8]
1782	14352	26898	1.05	H	0.0E+00 4557538 NT	TN	Homo sapiens solute carrier family 28 (sulfate transporter), member 2 (SLC26A2) mRNA
1781	14371	26916	2.35			TN	Homo sapiens SMCY (SMCY) gane, complete cds
1820	15450		35.11		4506718 NT	NT	Homo sapiens ribosomal protein S2 (RPS2) mRNA
1825	14414	26960	1.31	0.0E+00	4557556 NT	LN	Homo sapiens E1A binding protein p300 (EP300) mRNA
1825	14414	26961	1.31	0.0E+00	4557556 NT	NT	Homo sapiens E1A binding protein p300 (EP300) mRNA
1828	14417	26965	1.47	Ц	U63963.1	LN	Human CSF-1 receptor (FMS) gene, complete cds, and (SMF) gene, partial cds
1831	15451			0.0E+00	4505332	L	Homo sapiens nuclear autoantigentc sperm protein (histone-binding) (NASP) mRNA
1843	14431					LN	Human ribosomal protein L21 mRNA, complete cds
1845	14433	26987	7.44		1.1	N	Human mRNA for KIAA0333 gene, partial cds
1846	14434	26988	9.59		4502264 NT	NT	Homo sapiens activating transcription factor 4 (tax-responsive enhancer element B67) (ATF4) mRNA
1846	14434	26989	9.59	0.0E+00	4502264 NT	LN	Homo sapiens activating transcription factor 4 (tax-responsive enhancer element B67) (ATF4) mRNA
1846	14434	26990	65.6		4502264 NT	LZ.	Homo sapiens activating transcription factor 4 (tax-responsive enhancer element B67) (ATF4) mRNA
1857	14445		1,57		4506328 NT	ΓN	Homo sapiens protein tyrosine phosphatase, receptor-type, zeta polypeptide 1 (PTPRZ1) mRNA
1883	14450		1.38		4504626 NT	LN⊤	Homo sapiens immunoglobin superfamily, member 3 (IGSF3) mRNA, and translated products
1863	14450	27010		0.0E+00		LZ.	Homo sapiens Immunoglobin superfamily, member 3 (IGSF3) mRNA, and translated products
1874	14460		7.62		6005855 NT	LN	Homo sapiens Retine-derived POU-domain factor-1 (RPF-1), mRNA

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Probe SEQ ID NO:	SEO ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
1874	14460	27017			6005855 NT		Homo sapiens Retina-derived POU-domain factor-1 (RPF-1), mRNA
1884			0.83	l		NT	Homo sapiens mRNA for KIAA1152 protein, partial cds
1884						N	Homo sapiens mRNA for KIAA 1152 protein, partial ods
1888	14473	27030	2	0.0E+00	4826783 NT	L	Homo sapiens potassium voltage-gated channel. Shab-related subfamily, member 1 (KCNB1) mRNA
1888	!	27031	2	0.0E+00	4826783 NT	LΝ	Homo sapiens potassium voltage-gated channel, Shab-related subfamily, member 1 (KCNB1) mRNA
1889	1		80		0.0E+00 U07147.1	NT	Human retinal degeneration slow (RDS) gene, exch 1
1889	L					NT	Human retinal degeneration slow (RDS) gene, expn 1
1892	L	27036	1.32		0.0E+00 AW 207280.1	EST_HUMAN	UI-H-Bİ1-erin-f-07-0-UI.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2722333 3
1892	14477	27037	1.32		AW 207280.1	EST_HUMAN	UI-H-BI1-efin-f-07-0-UI.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2722333 3
1916	14501	27056		0.0E+	.00 BE 277 465.1	EST_HUMAN	601179164F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3547239 5
1916	14501	27057	3.38	+30'0	-00 BE277465.1	EST_HUMAN	601179164F1 NIH_MGC_20 Hamo saplens cDNA clane IMAGE:3547.239 5
1939	1	27079			0.0E+00 BE006292.1	EST_HUMAN	RC2-BN0128-200300-012-b04 BN0128 Homo sapiens cDNA
1967	14551	27106		0.0E+00	4506384 NT	L	Homo sapiens RAD1 (S. pombe) homolog (RAD1) mRNA, and translated products
1987	14551	27107	2.92	0.0E+	4506384 NT	LN	Homo sapiens RAD1 (S. pombe) homolog (RAD1) mRNA, and translated products
1975	14559		1.84	0.0E+	·00 AF157476.1	NT	Homo saptens DNA polymerase zata catalytic subunit (REV3) mKNA, comptete cds
1976	3 15455	27116	2.72	+30'0	-00 M98478.1	F	Human transglutaminase mRNA, complete cds
1976	3 15455	3 27117	2.72	+30.0	-00 M98478.1	H	Human transglutaminase mRNA, complete cds
1981	14584			0.0E+00		NT	Homo saplens transforming growth factor, beta 3 (TGFB3), mRNA
1981	14584		1.69		4507464 NT	NT	Homo sapiens transforming growth factor, beta 3 (TGFB3), mRNA
	┺	L					Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1)
1985	14567		5.68	0.0E	-00 AF240786.1	F	genes, complete cds
8	14572	ė	5.14		0.0E+00 M55632.1	ΝΤ	Human topotsomerase I pseudogene 1
1999	14581	27139	3.45		4809282 NT	NT	Homo sapiens histidine ammonia-lyase (HAL) mRNA
1999		L	3.45	0.0	4809282 NT	N	Homo sapiens histidine ammonla-lyasa (HAL) mRNA
2009	١.	L		0.0	+00 AL163252.2	ΝΤ	Homo sapiens chromosome 21 segment HS21C052
2011	L	3 27153		0.0	8400716 NT	TN	Homo sapiens nebulin (NEB), mRNA
2011	L		1.13	0.0E+00	8400716 NT	NT	Homo saplens nebulin (NEB), mRNA
2012	L	4 27155		90.0		N	Homo sapiens actinin, alpha 4 (ACTN4) mRNA
2012	<u> </u>	4 27156	3 2.07	0.0E	4826638 NT	LZ.	Homo sapiens actinin, alpha 4 (ACTN4) mRNA
202	14606	8 27171		0.0E	+00 AB018333.1	L	Homo saplens mRNA for KIAA0790 protein, partial cds
2024	14608	8 27172		0.0E	+00 AB018333.1	닐	Homo sapiens mRNA for KIAA0790 protein, partial cds
ğ	14612	2 27176	1.43	0.0E	+00 M33782.1	N L	Human TFEB protein mRNA, partial cds

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Strigto Extra Flores Expressed III against	ORF SEQ Expression (Top) Hit Top Hit Acession Database ID NO: Signal BLASTE No. Source	27177 1.43 0.0E+00[M33782.1 NT	27178 0.89 0.0E+00 AW 193024.1 EST_HUMAN	. 27179 0.89 0.0E+00 AW 193024.1 EST HUMAN XIGBO1 X1 NCI_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2679913.3	27180 7.94 0.0E+00 6912457 NT	27181 7.94 0.0E+00 6912457 NT	27183 0.88	27184 0.92	27185	27194 2.25 0.0E+00[AB040946.1 NT	27245	27249 2.71	27250 2.71 0.0E+00 BE743215.1 EST_HUMAN	27251 139	27252 3.79 0.0E+00 AU140831.1 EST HUMAN	26603 1.97 0.0E+00 7705565	1.97	27254 1.59 0.0E+00 AA077589.1 [EST_HUMAN	27255	1,75 0.0E+00 7657468 NT		C	27268 2 72 0 0E+00 BE877225 1 EST HIMAN	27268 1.8 0.0E+00 BF315325.1 EST HUMAN	27269 1.8 0.0E+00 BF315325.1 EST_HUMAN	27275 2.31	27276 2.31 0.0E+00 BE697125.1 EST_HUMAN	27283 2.79 0.0E+00 L00620.1 NT	27284 2.79	1,61		27292 34,67 0.0E+00 BE500995.1 EST_HUMAN P50443 SULFATE TRANSPORTER;
		27177	27178	27179	27180	27181	27183	27184	27185	27194	27245	27249	27250	27251	27252	26603	26604	27254	27255				27.268	27.268	27269	27275	27276	27283	27284	27285	27289	27292
	Exon SEQ ID NO:	30 14612	32 14614	32 14614	33 14615		1	36 14618	36 14618		L	14681	14681	2104 14683		1	14066	14686	14686	10 14688	2112 14690	1	2119 14697			1		2133 14711	33 14711	2134 14712	2139 14717	2143 14721
	Probe SEQ ID NO:	2030	2032	2032	R	Ŕ	2035	8	2036	2043	2097	2102	2102	ة	2	2106	2108	2108	2108	2110	21	6	1/2	2121	2	2	2	2	21	21	2	21

WO 01/57277

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		_	T	т-	Т	7			_		$\overline{}$	т	т-	т	т-	т-	_	т-	т-	т-	T		т —	т-	т	\mathbf{T}	т-	τ-	_	$\overline{}$	_
b	Top Hit Descriptor	QV1-GN0065-140800-318-c10 GN0065 Homo sapiens cDNA	Homo sapiens X-linked juvenile retinoschisis protein (XLRS1) gene, exon 6 and complete cds	601672066F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3954785 5	Homo sapiens glutathlone S-transferase theta 2 (GSTT2) and glutathlone S-transferase theta 1 (GSTT1)	gares, complete cas	IL3-CT0219-271099-022-G10 CT0219 Homo sapiens cDNA	QV-81065-020399-092 BT065 Homo sapiens cDNA	QV-BT065-020399-092 BT065 Homo sapiens cDNA	Homo sapiens potassium large conductance calcium-activated channel, subfamily M, beta member 3-like (KCNMB3L), mRNA	Human DNA-binding protein mRNA, 3'end	AV738288 CB Hamo sapiens cDNA clone CBNBDE08 5'	AV738288 CB Hamo sapiens cDNA clone CBNBDE08 5'	0032001.s1 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1567896 3'	Human apolipoprotein B-100 (apoB) gene, exons 22 through 29	802014829F1 NCI_CGAP_Brn64 Hamo sapiens cDNA clone IMAGE:4150734 5	601572186T1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:3839012 3'	CM1-TN0141-250900-439-b08 TN0141 Homo sapiens cDNA	CM1-TN0141-250900-439-b08 TN0141 Homo sapiens cDNA	B01900261F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4129622 5'	bb84e02.y1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3049082 5' similar to TR:Q15170 Q15170 TRANSCRIPTION FACTOR S-II-RELATED PROTEIN	2630-07.s1 Soares_pregnant_uterus_NbHPU Homo sapiens cDN4 clone IMAGE:486540 3' similar to gb:X65857_cds1 OLFACTORY RECEPTOR-LIKE PROTEIN HGMP0TE (HUMAN);	2453c07.s1 Soares_pregnant_uterus_NbHPU Homo sepiens cDNA clone IMACE: 496540 3' similar to gb:X65857_cds1 OLFACTORY RECEPTOR-LIKE PROTEIN HGMP07E (HUMAN);	Homo sapiens chromosome 21 segment HS21C004	Homo sapiens chromosome 21 segment HS21C004	Homo sapiens KIAA0952 protein (KIAA0952), mRNA	Homo saplens KIAA0952 protein (KIAA0952), mRNA	Human beta-prime-adaptin (BAM22) gene, exon 16	Z12b10.r1 NCI_CGAP_GCB1 Hamo sapiens cDNA clone IMAGE:712891 5	601432317F1 NIH_MGC_72 Hamo sapiens cDNA clane IMAGE:3917453 5'	Human apoliprotein C-I pseudogene, complete cds
	Top Hit Database Source	EST_HUMAN	LN L	EST_HUMAN	Ė	N	EST_HUMAN	EST_HUMAN	EST_HUMAN	۲	N	EST HUMAN	EST HUMAN	EST HUMAN	Ę	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST HUMAN	N _T	LV.	LN.	LN	NT	EST_HUMAN	EST HUMAN	NT
	Top Hit Acession No.	0.0E+00 BE767964.1	AF018963.1	BF027562.1	A E 040700 4	U.UE+UU AF 240788.1	0.0E+00 AW752708.1	AI904640.1	AI904640.1	7657252 NT	L14787.1	AV738288.1	0.0E+00 AV738288.1	AA931691.1	0.0E+00 M19828.1	BF344434.1	BE748899.1	BF377897.1	BF377897.1	BF313617.1	0E+00 BE018750.1	0E+00 AA042813.1	AA042813.1	AL163204.2	AL163204.2	7682401 NT	7662401 NT		0.0E+00 AA282281.1		M20903.1
	Most Similar (Top) Hit BLAST E Value	0.0E+00	0.0E+00	0.0E+00	001	0.05+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	Expression Signal	2.08	8.1	3.84	o c	88.0	1.35	6.51	6.51	0.97	1.37	10.57	10.57	1.12	7.75	10.88	20.34	2.59	2.59	2.04	1.56	0.94	96.0	2.87	2.87	86.0	96.0	1.58	0.91	0.92	4.79
	ORF SEQ ID NO:			27310			27312		27315			27377				27383				27393	27396	27397	27398	27406			27409			27420	
	Exon SEQ ID NO:	14737	14738	14740		- [- {	14745	14745	14778	14799	14805	14805	14807	14809	14811	14812	14815	14815	15461	14821	14822	14822	14830	14830	14831	14831	14836	14837	14844	14845
	Probe SEQ ID NO:	2160	2161	2163	7465	8 3	2166	5168 2168	2168	2202	2224	2230	2230	2232	2234	2236	2237	2240	2240	2244	2247	2248	2248	2256	2256	2257	2257	2262	2263	2270	2271

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Single Exon Flobes Expressed in Fetal Liver	Top Hit Descriptor	Homo sapiens E1A binding protein p300 (EP300) mRNA	Homo sapiens KIAA0952 protein (KIAA0952), mRNA	601433525F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3918607 5'	Homo sapiens mRNA for KIAA1363 protein, partial cds	Homo sapiens differentially expressed in FDCP (mouse homolog) 6 (DEF6), mRNA	Homo sapiens differentially expressed in FDCP (mouse homolog) 6 (DEF6), mRNA	oz09c07.x1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:1674828 31	zv78a11.r1 Soares_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:759740 5	zv78a11.r1 Soares_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:759740 5'	zi11e12.s1 Soares_fetal_liver_spleen_1NFLS_S1 Hamo sapiens cDNA clone IMAGE:430510 3'	602021846F1 NCI_CGAP_Bm67 Hamo sapiens cDNA clone IMAGE:4157339 5'	Homo sapiens potassium channel Kv2.1 mRNA, complete cds	Homo sapiens flavin containing monooxygenase 3 (FMO3), mRNA	7722802.x1 NCI_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:3295370 3' similar to TR: 094939 094939	KIAA0857 PROTEIN;	Homo sapiens phosphorylase kinase alpha subunit (PHKA2) gene, exon 32	157c08.x1 NCI_CGAP_Ut2 Hamo sapiens cDNA clone IMAGE:2283182 3	Homo sapiens sperm specific antigen 2 (SSFA2), mRNA	Homo sapiens specific antigen 2 (SSFA2), mRNA	Human mRNA for KIAA0194 gene, partial cds	Human mRNA for KIAA0194 gene, partial cds	Homo saplens detodinase, lodothyronine, type i (DIO1) mRNA	Homo sapiens signal regulatory protein, beta, 1 (SIRP-BETA-1) mRNA	AU131142 NT2RP3 Homo sapiens cDNA clone NT2RP3002064 5'	601586843F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3941003 5'	MR1-SN0033-120400-002-a04 SN0033 Homo sapiens cDNA	Homo saplens KIAA0244 protein (KIAA0244), mRNA	Homo sapiens hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase) (H6PD), mRNA	Homo sapiens hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase) (H6PD), mRNA	Homo sapiens cytochrome P450 polypeptide 43 (CYP3A43) gene, partial cds; cytochrome P450 polypeptide	4 (CYP3A4) and cytochrome P450 polypeptide 7 (CYP3A7) genes, complete cds, and cytochrome P450	polypeptide 5 (CYP3A5) gene, partial cds	AU118082 HEMBA1 Homo sapiens cDNA clone HEMBA1002839 5'	AU118082 HEMBA1 Homo sapiens cDNA clone HEMBA1002839 5
EXOLI PIODES	Top Hit Database Source			Γ.	LNT			1	EST_HUMAN		EST_HUMAN	EST_HUMAN	N _T			T_HUMAN	LN T	EST_HUMAN			LN	NT TN			EST HUMAN		EST_HUMAN						7	П	EST_HUMAN
Aigiric	Top Hit Acession No.	4557556 NT	7662401 NT		0.0E+00 AB037784.1	11545748 NT	0.0E+00 11545748 NT					0.0E+00 BF347039.1	:+00 L02840.1	6325466 NT				+00 AI625542.1	5803178 NT	5803178 NT	+00 D83778.1		4557521 NT	5174678 NT	0.0E+00 AU131142.1		:+00 AW867076.1	7662017 NT	4758497 NT	4758497 NT					0.0E+00 AU118082.1
	Most Similar (Top) Hit BLAST E Value	0.0E+00	0.0E+00	0.0E+00	0.0E+00/	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 /	0.0E+00/	0.0E+00	0.0E+00.1	0.0E+00		0.0E+00	0.0E+00 /	0.0E+00 /	0.0E+00	0.0E+00	0.0E+00	0.0E+00 D83778.1	0.0E+00	0.0E+00	0.0E+00 /	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00		i d	0.0E+00.0	0.0E+00	0.0E+00/
	Expression Signal	6.28	1.15	1.05	1.26	3.84	3.84	2.06	1.81	1.81	1.98	3.65	3.07	1.6		1.17	5.89	2.94	1.72	1.72	66.0	0.99	1,07	2.83	1,95	8.95	0.98	5.08	1.69	1.69			3.28	10.16	10.16
	ORF SEQ ID NO:		27437	27445		27482				27487	27489		27496	27497						27510				27527	27531		27532	27533		27535				27537	
	Exon SEQ ID NO:	14856	14862	14869		14910					14915		14921	14922			14931		14937	14937				14956	14959		14961	14962	14963	14963			- 1	- Į	14966
	Probe SEQ ID NO:	2282	2288	2295	2299	2339	2339	2340	2342	2342	2344	2345	2350	2351		2358	2360	2361	2366	2366	2377	2377	2378	2387	2391	2392	2383	2394	2395	2395		-	2396	2398	2398

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Probe SEG ID 8	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
2758	15313		1.42	0.0E+00		NT	Homo sapiens skeletal muscle LIM-protein 1 (FHL1) gene, complete cds
2760	15315	27881		0.0E+00	0.0E+00 AB051826.1	NT	Homo saplens hG28K mRNA for GTP-binding protein like 1, complete cds
2765	15319		~	0.0E+00		EST_HUMAN	801591991F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3945983 5
2766	15320		2.11	0.0E+00		EST_HUMAN	602155923F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4297132 5
2769	15476		14.33	0.0E+00	0.0E+00 BE563433.1	EST_HUMAN	601335485F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3689364 5
2770	15323		1.77	0.0E+00	0.0E+00 AV721647.1	EST_HUMAN	AV721647 HTB Homo sapiens cDNA clone HTBBYE09 5
2772	15325	27893	2.47	0.0E+00	5174486 NT	NT	Homo sapiens spermatogenesis associated PD1 (KIAA0757) mRNA
2772	15325		2.47	0.0E+00		N	Homo sapiens spermatogenesis associated PD1 (KIAA0757) mRNA
2773	15328		1.25	0.0E+00	8923441 NT	NT	Homo sapiens hypothetical protein FLJ20477 (FLJ20477), mRNA
2773	15326	L		0.0E+00	8923441 NT	NT	Homo sapiens hypothetical protein FLJ20477 (FLJ20477), mRNA
2774	15327		2.27	0.0E+00	0.0E+00 AF290195.1	LΝ	Homo sapiens hypertension-related calcium-regulated gene mRNA, complete cds
2775	15328	L	131.05			EST_HUMAN	AV651066 GLC Horno sepiens cDNA clone GLCCLD07 3
2778		27898				EST_HUMAN	CM1-TN0141-250900-439-b08 TN0141 Homo sapiens cDNA
2778	1	L		0.0E+00	+00 BF377897.1	EST_HUMAN	CM1-TN0141-250900-439-b08 TN0141 Homo sapiens cDNA
2780	1	L	7.42	0.0E		NT	Homo sapiens cerebellar degeneration-related protein (34kD) (CDR1) mRNA
2780	ı	L	7.42		4757963 NT	NT	Homo sapiens cerebellar degeneration-related protein (34kD) (CDR1) mRNA
2784	ı	L	3.11	0.0E-	+00 BE747193.1	EST_HUMAN	601580903F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3929472 5'
2796	15349			0.0E	+00 AL163201.2	NT	Hamo sapiens chranosame 21 segment HS21C001
2797	15350	27919	2.76	0.0Ē	+00 BF514110.1	EST_HUMAN	UI-H-BW 1-amw-e-07-0-UI:s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3071340 3
2804	1					FZ	Homo sapiens chondroltin sulfate proteoglycan 4 (melanome-associated) (CSPG4), mRNA
2809	1	27928	1.76		7705275 NT	NT	Homo saplens angiopoietin-3 (ANG-3), mRNA
5809	ı	L	1.78	0.0E+00	7705275 NT	·	Homo sapiens angiopoietin-3 (ANG-3), mRNA
2810	ı	L	4.3	0.0E	+00 BF677694.1	EST_HUMAN	602085578F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4248915 5
2814	١.	L	1.1	0.0E	7427522 NT	ΙN	Home sapiens protein tyrosine phosphatase, receptor type, T (PTPRT), mKNA
2817	15369			30'0	+00 AV725534.1	EST_HUMAN	AV725534 HTC Homo saptens cDNA clone HTCCCA03 5
2817	15369		17.28	0.0E	+00 AV725534.1	EST_HUMAN	AV725534 HTC Hamo sapiens cDNA clone HTCCCA03 6
	ŀ	<u> </u>				1471	Bu55d04.y1 Schneider fetal brain 00004 Homo saplens cDNA clone IMAGE:2518663 5' similar to con-
2819	15371			0.0E	+00 AI879163.1	ESI_NUMAN	SWIN ISA, THOMBIN I SALES OUT INCOME. INCOME. INCOME.
2822	15374			0.0E	+00 BF530661.1	EST HUMAN	602071957F1 NCI_CGAP_Bm67 Homo sapiens cunA cione invAcE-4214679 3
2823	15375		7.68	0.0E	+00 BE872768.1	EST_HUMAN	601450912F1 NIH MGC 65 Homo sapiens converging invalue: 3054042 3
2825	15377		1.55	0.0E	+00 AU131494.1	EST_HUMAN	AU131494 NTZRF3 Homo sapiens cuna cione NTZRF3/0/20/20
2825	l	L		0.0E	+00 AU131494.1	EST_HUMAN	AU131494 N 12RP3 Hamo sapiens CUNA cione N 12RP300267.2 3
2826				0.0E	+00 BE300344.1	EST_HUMAN	600944794F1 NIH MGC 17 Homo sapiens cunk cione imAGE 2600900 3
2826		27949	34.11	0.0E	+00 BE300344.1	EST_HUMAN	600944794F1 NIM_MISC_17 Hamo sapiens cunna cione IMAGE. 2500000 3

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Table 4
Single Exon Probes Expressed in Fetal Liver

Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
2832	12881	25345	7.88	0.0E+00		Ę	glycoprotein D≂Duffy group antigen [human, blood, Genomic DNA, 3068 nt]
2835	15385		1.75	0.0E+00	0.0E+00 AB033281.1	NT	Homo sapiens BTRCP2 mRNA for F-box and WD-repeats protein isoform C, complete cds
2841	13382	25881	1.88	0.0E+00		LN T	Homo sapiens ALR-like protein mRNA, partial cds
2841	13382	25882	1.88	0.0E+00	:+00 AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
2846	13682	28192	3.33	00 50	4503202 NT	2	Homo sapiens cytochrome P450, subfamily i (dioxin-inducible), polypeptide 1 (glaucoma 3, primary infantile) (CYP181) mRNA
	1						Homo sapiens cytochrome P450, subfamily I (dioxin-inducible), polypeptide 1 (glaucoma 3, primary infantile)
2846	13682	26193	3.33	0.0E+00	4503202 NT	LN	(CYP1B1) mRNA
2861	15480	27956	4.7	00+30.0	0.0E+00 X85980.1	Ę	H. sapiens serine hydroxymethyltransferase pseudogene
2882	15481		2.28	0.0E+00	:+00 AF088624.1	N	Homo sapiens 5-aminolevulinate synthase 2 (ALAS2) gene, complete cds
2863	15482		1.63	0.0E+00	+00 AB040960.1	Ę	Homo sapiens mRNA for KIAA1527 protein, partial cds
20.70	46400		1 06	00.10	0 OE +00 A 12300E2 4	1	Homo sapiens partial rpl3 gene for ribosomal protein L3, U82 snoRNA, U83a snoRNA and U83b snoRNA
2/07	┸	03020	90:-	0.05+00			SALBA
1/97	L	006/7	2.43	0.05+00	7	ž.	Homo septems chromosome 21 segment HSZLC001
2875		27963	1.55	0.0E+00		7	Human AHNAK nucleoprotein mRNA, 5 end
2877	15495	27965	1.25	0.0E+00	0.0E+00 BE154504.1		PM0-HT0343-281299-003-e02 HT0343 Homo sapiens cDNA
2877		27966	1.25	0.0E+00	0.0E+00 BE154504.1	EST_HUMAN	PM0-HT0343-281299-003-e02 HT0343 Hamo sapiens cDNA
2879			1	0.0E+00	+00 X73428.1	TN	H.saplens id3 gene for HLH type transcription factor
2881			2.76	0.0E+00	+00 AL 183268.2	NT	Homo sapiens chromosome 21 segment HS21C088
2882	15500	27969	1.01	0.0E+00	7019584 NT	TN	Homo sapiens zinc finger protein 221 (ZNF221), mRNA
2882	15500	27970	1.01	0.0E+00		IN	Homo sapiens zinc finger protein 221 (ZNF221), mRNA
2882	15500	27971	1.01	0.0E+00		IN	Homo sapiens zinc finger protein 221 (ZNF221), mRNA
2884	15502	27972	2.39	0.0E+00	+00 M98478.1	NT	Human transglutaminase mRNA, complete cds
2888		27975	15.68	0.0E+00	0.0E+00 D50657.1	IN	Homo sapiens gammma-cytoplasmic actin (ACTGP3) pseudogene
2888		27976	15.68	0.0E+00	0.0E+00 D50657.1	TN	Homo sapiens gammma-cytoplasmic actin (ACTGP3) pseudogene
2891	15508	27979	1.95	0.0E+00	0.0E+00 AL096857.1	IN	Novel human mRNA from chromosome 1, which has similarities to BAT2 genes
2892	15509		7.43	0.0E+00	:+00 Y10658.1	LZ.	H.saplens mRNA for nuclear DNA helicase il
2893	15510		1.17	0.0E+00	+00 AF152303.1	ΤN	Homo sapiens protocadherin alpha C1 (PCDH-alpha-C1) mRNA, complete cds
2894	15511	27980	112.87	0.0E+00	4503470 NT	INT	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
2894		27981	112.87	0.0E+00	4503470 NT	TN	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
2904	15521	27991	2.68	0.0E+00	4507280 NT		Homo sapiens serine/threonine kinase 9 (STK9) mRNA
2907			1.03	0.0E+00	AL04759	T_HUMAN	DKFZp586G0621_r1 596 (synonym; hule1) Homo sapiens cDNA clone DKFZp586G0621
2908			<u>1</u> 8.	0.0E+00		LN	Homo sapiens KIAA0054 gene product; Helicase (KIAA0054), mRNA
2908	15525	27997	1.64	0.0E+00	7661883 NT	LN-	Homo sapiens KIAA0054 gene product Helicase (KIAA0054), mRNA

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Single Exon Probes Expressed in Petal Liver	Top Hit Descriptor	Homo sapiens chondroitin sulfate proteoglycan 4 (melanome-associated) (CSPG4), mRNA	QV2-BT0636-130400-138-h03 BT0636 Homo sapiens cDNA	QV2-BT0636-130400-138-h03 BT0636 Homo sapiens cDNA	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA	Homo sapiens chranosome 21 segment HS21C006	Homo sapiens chromosome 21 segment HS21C008	zr96b11.s1 NCI_CGAP_GC81 Homo sapiens cDNA clone IMAGE:683517 3' similær to contains Alu repetitive element;	Homo sapiens hHb5 gene for hair keratin, exons 1 to 9	Homo sapiens EphA4 (EPHA4) mRNA	Homo sapiens eukaryotte translation elongation factor 1 alpha 1 (EEF1A1) mRNA	ZINC FINGER PROTEIN 132	Homo saplens protocadherin gamma C4 (PCDH-gamma-C4) mRNA, complete cds	qq49f04.x1 Soares_testis_NHT Home sapiens cDNA clone IMAGE:1838527.3' similar to SW: CB29 HIMAN P52208.20 KD NI ICLEAR CAP BINDING PROTEIN	Homo septiens mRNA for KIAA1267 protein, partial cds	Homo sapiens mRNA for KIAA1267 protein, partial cds	Homo sapiens, mRNA for KIAA1508 protein partial cds	Homo sapiens mRNA for KIAA1508 protein, partial cds	Homo sapiens KIAA0100 gene product (KIAA0100), mRNA	Homo sapiens KIAA0100 gene product (KIAA0100), mRNA	Homo sapiens myeloid/lymphold or mixed-lineage leukemia (trithorax (Drosophila) homolog); translocated to, 4 (MLLT4) mRNA	Homo sapiens myelold/lymphold or mixed-lineage leukemia (trithorax (Drosophila) homolog); translocated to, 4 (MLLT4) mRNA	7n40d03.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3597028 3' similær to TR:Q9VLN1 Q9VLN1 CG17293 PROTEIN.	7n40d03.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3567028 3' similar to TR:Q9VLN1	YEAR COLLEGE THOUSANDERS.	Homo sapiens melanoma antigen, family B, 4 (MAGEB4), mRNA	Homo sapiens melanoma antigen, family B, 4 (MAGEB4), mRNA	Homo sapiens neurexin III (NRXN3) mRNA	H. sapiens NF-H gene, exon 4
Exon Probes E	Top Hit Database Source		HUMAN	EST_HUMAN Q				I. LN		Ĭ.			SWISSPROT Z			Т								HUMAN		NEW CE				¥.
Alfilic	Top Hit Acession No.	4503098 NT	+00 BE081896.1	F00 BE081896.1	6806918 NT	6808918 NT		+00 AL163206.2			4758279 NT	4503470 NT	+00 P52740	38.1				I		31933	7661903 NT	5174574 NT	5174574 NT	+00 BF110702.1		100 Dr 110/02.1	4505084 NT	4505084 NT	4758827	+00 X15309.1
	Most Similar (Top) Hit BLAST E Value	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 ₽	0.0E+00.	0.0E+00.4		0.0E+00	0.0E+00	0.0E+00	0.0E+00	001	00+40	0 OF +00 A) OE+OO	00+400	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00		0.05+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00)
	Expression Signal	2.8	8.04 40.04	8.04	0.71	0.71	2.25	2.25	- 23	4.1	1.24	41.84	1.65	1.25	6	1 78.	1 78	28.8	48.9	3.14	3.14	3,48	3.48	1.12	,	7.12	2.96	2.98	1.82	1.33
	ORF SEQ ID NO:		27999	28000	28008	28009	28013	28014	28015		28024		28029	28030	78037	28045	28046	280.47	28048	28051							28070	28071	28077	28080
	SEQ ID NO:	15526	15529	15529	15535	ı		15538	15539	15545		l_		Ι.	I.	15570	L	1	1	L	L	ŀ		1	ł		- !			15601
	Probe SEQ ID NO:	2808	2912	2912	2918	2918	2921	2921	2922	2928	2832	2834	2836	2837	976	2054	200	2088	2955	2958	2958	2959	2959	2864		\$087 87	2972	2972	2981	2985

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Gobe Exan Across 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
SEQ ID NO: 0.000

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Top Hit Descriptor	Homo sapiens mRNA for KIAA0549 protein, partial cds	Home carlone mBNA for KIAA0549 protein partial cds	TIGHTO CHAPTER THE CHAPTER TO THE CHAPTER TO THE CHAPTER THE CHAPTER TO THE CHAPT	yesztús si Sagragene lung (#85/210) nomo septens con a cione innoce. Historico e minia no ci como S29639 BASIC PROTEIN, 23K - ;	601878507F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:4107433 5'	wu12h10.x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2516803 3'	H.sapiens mRNA for gamma-glutamy/transferase	H.sapiens mRNA for gamme-glutamyfransferase			Homo sapiens neurexin III (NRXN3) mRNA	Homo sapiens interleukin 1 receptor, type I (IL1R1) mRNA	Homo sapiens titin (TTN) mRNA	Homo sapiens titin (TTN) mRNA	Homo sapiens partial TTN gene for titin	Homo sapiens nucleolar phosphoprotein B23 (NPM1) mRNA, complete cds	Homo sapiens solute carrier family 25 (mitochondrial carrier; adenine nucleotide translocator), member 5 (SLC25A5), nuclear gene encoding mitochondrial protein, mRNA	Homo sapiens CREB binding protein (Rubinstein-Taybi syndrome) (CREBBP) mRNA	Homo saplens CREB binding protein (Rubinstein-Taybi syndrome) (CREBBP) mRNA	ae87b11.s1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:971133 3	Homo sapiens angiostatin binding protein 1 mRNA, complete cds	Homo sapiens angiostatin binding protein 1 mRNA, complete cds	Homo sapiens fibrillin 1 (Marfan syndrome) (FBN1) mRNA	Homo sapiens titn (TTN) mRNA	Human connexin 43 processed pseudogene	Homo saplens HLA class III region containing tenascin X (tenascin-X) gene, partial cds; cytochrome P450 21-	Injeroxylase (CYP218), complement component (4 (C48) G11, nercase (SNLVY), RD, complement actor of	(br), and complement component or (cz) genes,	Homo sapiens very large G-protein coupled receptor-1 (VLGR1) mKNA, complete cas	Homo saplens A kinase (PRKA) anchor protein 1 (AKAP1), mKNA	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1), mRNA	Homo saplens SWI-SNF complex protein p2/0 mKNA, partial cos
Top Hit Database Source	H	<u> </u>		EST_HUMAN	EST HUMAN	EST HUMAN	L	FZ	EST_HUMAN	FZ	F	FZ	N⊤	TN	IN	NT	Ł	LN	TN	EST_HUMAN	LN	NT	LN	Z	۲Z			Ę	Z	L Z	ΝΤ	N _T
Top Hit Acession No.		V.0E - 000 - 100 -			1.				0.0E+00 AI685950.1	58827	4758827 NT	4504658 NT	4507720 NT	4507720 NT	0.0E+00 AJ277892.1	+00 M28699.1	4502098 NT	4758055 NT	4758055 NT	0.0E+00 AA774783.1	0.0E+00 AF286598.1	AF286598.1	4557590 NT	4507720 NT	M65189.1			0.0E+00 AF019413.1	AF05508		4502014 NT	E+00 AF265208.1
Most Similar (Top) Hit BLAST E	00430	V.0E.100	0.0E+00	0.0E+00 T94870.1	0.0E+00	0.0E+00/	0.0E+00 X98922.1	0.0E+00 X98922.1	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 M65189.1			0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Expression Signal	000	2,20	2002	18.48	1.23	1.28	4.69	4.69	0.63	1.57	1.57	10.75	0.92	0.92	-	2.88	2.27	96.0	96.0	4.57	4.14	4.14	4.	1.09	96.0			1.7	4.47	2.28		2.57
ORF SEQ ID NO:		71707		28281	L		L								L													28390	28392	28400		
SEQ IO	- 1	1	15800	15808	L	1		1		Н	1	L		1	ı	1			Ι.	Ι.	I.	L	L	l_				15912	15914	L	1	15939
Probe SEQ ID NO:	00,0	8 5	3188	3198	3210	3211	3216	3216	3218	3226	3226	3233	3234	3234	3245	3253	3257	3263	3263	3285	3273	3273	3285	3282	3300			3301	3303	3313	3313	3329

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		_	_		_	_	-	_	_	_	_	_	_			_	_	_	_		_	_	٠,	_			_	_			_	_
Single Exon Probes Expressed in Fetal Liver	Top Hit Descriptor	Homo sapiens hypothetical protein FL 120605 (FL 120605) mRNA	Homo sapiens G protein-coupled receptor 24 (GPR24) mRNA	tr58f08.x2 NCI_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2222535 3' similar to SW:RL11_RAT P25121 60S RIBOSOMAL PROTEIN 11 contains All randition alamant:	EST367470 MAGE reseduences, MAGD Homo seniens CINA	Homo sapiens telomerase reverse transcribtase (TERT) dene exons 1-6	Homo sapiens telomerase reverse transcriptase (TERT) gene exons 1-8	Homo sapiens hormonally uprequiated neu tumor-associated kinasa (HI NK) mRNA	Homo sapiens hormonally upregulated neu tumor-associated kinase (HINK) mRNA	Homo saplens caspase 8, abootosis-related cysteine professe (CASPR) mRNA	Homo sapiens caspase 8, apoptosis-related cysteine protease (CASPR) mRNA	Homo sapiens bytin (MERV) gene cramplete cds	Homo sapiens mRNA for KIAA1507 protein, partial cds	wb10f04.x1 NCI_CGAP_GC8 Hamo sepiens cDNA clone IMAGE:2305279 3' similar to TR:Q91929 Q91929	ZING FINGER PROTEIN. ;	AU123664 NT2RM2 Homo sapiens cDNA clone NT2RM2000735 5'	Homo sapiens offactory receptor, family 10, subfamily C, member 1 (OR10C1), mRNA	Homo sapiens olfactory receptor, family 10, subfamily C, member 1 (0R10C1) mRNA	Homo sapiens neuroblastoma-amplified protein (LOCS1594) mRNA	Home contain T the collision of the coll	MR1-SN0033-100400-04 SN0033-04 - 08 SN0033-04 SN0033-04 SN003 (CACNATI) mKNA, complete cds	Homo sabiens KIAA0952 protein (KIAA0657) mRNA	Homo sapiens KIAA0952 protein (KIAA0952) mRNA	Homo sapiens beaded filament structural protein 1, filensin (BFSP1) mRNA	Homo sepiens leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 2 (LILRA2), mRNA	Homo sapiens skeletal muscle LIM-protein 1 (FHL1) gene complete cds	Homo sapiens death receptor 6 (DR6), mRNA	Homo sapiens protein kinase, AMP-activated, alpha 2 catalytic subunit (PRKAA2) mRNA	Homo sapiens protein kinase, AMP-activated, alpha 2 catalytic subunit (PRKAA2) mRNA	Bacteriophage P1 replication region including repA, parA, and parB genes and IncA, IncB, and IncC	incompatibility determinants	Homo sapiens protein tyrosine phosphatase, receptor type, T (PTPRT), mRNA
Exon Propes	Top Hit Database Source	L'Z	۲	EST HUMAN	EST HUMAN	NT	LN-	N	IN	N	NT	N	LN		EST_HUMAN	EST_HUMAN	N	Z	N	F	T H IMAN		Z			Į.	k					
Single	Top Hit Acession No.	8923624 NT	4885312 NT	+00 A 589294.1	+00 AW955400.1	0.0E+00 AF128893.1	AF128893.1	7657213 NT	7857213 NT	4502582 NT	4502582 NT	AF11116	0.0E+00 AB040940.1			0.0E+00 AU123664.1	7383436 NT	7363436 NT	7706239 NT	+00 AE211189 1		7662401 NT	7662401 NT	4502398 NT	5803087 NT	+00 AF110763.1	7657038 NT	5453965 NT	5453965 NT		+00 NU2380.1	7427522NT
	Most Similar (Top) Hit BLAST E Value	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.05+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	00.30	0.05	0.0=+001
	Expression Signal	1.68	1.02	5.6	4.	2.28	2.28	0.91	16.0	1.23	1.23	13.03	0.89	,	90.	3.18	0.94	0.94	1.88	40	1,03	1.28	1.28	1.05	1.72	1.56	2.38	76.0	76.0	8	38.6	1.4
	ORF SEQ ID NO:	28416	28440	28451	28454	28460	28461	28462	28463	28465	28466	28469	28471			28529	28532	28533	28535	28536		28550	28551	28552	28554	27879	28567	28568	28569	28573	2000	C 1007
	Exen SEQ ID NO:	15940	15963	15974	١,									4004	- [- 1		16057	16060	16061	16065	16077	16077	16078	16081	15313	16094	16095	16095	1600a	2 2	120121
	Probe SEQ ID NO:	3330	3355	3366	3369	3374	3374	3375	3375	3378	3378	3382	3384	3403	3	3443	3450	3450	3453	3454	3458	3471	3471	3472	3475	3484	3489	3490	3490	3403	3404	2707

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Probe No.: Exon No.: ORF SEQ ID ID NO.: NO.: NO.: ID NO.: 3497 16102 28581 3501 16106 28581 3504 16106 28582 3505 16110 28587 3506 16111 28588 3512 16117 28587 3528 16117 28688 3512 16117 28691 3528 16133 28618 3529 16145 28638 3547 16145 28632 3547 16161 28643 3547 16161 28643 3547 16161 28643 3547 16161 28643 3553 16167 28643 3554 16164 28643 3556 16164 28643 3565 16164 28657 3566 16169 28657 3566 16169 28657 <t< th=""></t<>
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

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Table 4
Single Exon Probes Expressed in Fetal Liver

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					- D		
Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
3743	16344	28812	1.66	0.0E+00	+00 AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
3746	18347	28815	1.08	0.0E+00	+00 AW851714.1	EST_HUMAN	MR2-CT0222-281099-005-e05 CT0222 Homo saplens cDNA
3748	16349	28817		0.0E+00	5729928 NT	TN	Homo sapiens matrix metalloproteinase 24 (membrane-inserted) (MMP24), mRNA
3750	16351	28819		0.0E+00	39.1	NT	Homo sapiens mRNA for KIAA0796 protein, partial cds
3752	16353	28821		0.0E+00	+00 014867	SWISSPROT	TRANSCRIPTION REGULATOR PROTEIN BACH1 (BTB AND CNC HOMOLOG 1) (HA2303)
3754	16355			0.0E		NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
3754	16355			0.0E		NT	Homo saplens mRNA for KIAA0910 protein, partial cds
3787	16368			0.0E		EST_HUMAN	UI-H-BW0-qjs-e-12-0-UI.s1 NCI_CGAP_Sub6 Homo sapiens cDNA clone IMAGE:2733022 3'
3787	16368	28834	4.72	0.0E+00	+00 AW 298134.1	EST_HUMAN	UI-H-BW0-ejs-0-12-0-UI s1 NCI_CGAP_Sub6 Homo sapiens cDNA clone IMAGE:2733022 3
3792	16392	28857	1.06	0.0E+00	+00 AB004630.1	LN	Human gene for Type XIX collagen a1 chain, exon 8
3783	16393	28858	28.0	0.05+00	+00 AA463659.1	EST HUMAN	aa06g01.r1 Soares_NhHMPu_S1 Homo sapiens cDNA clone IMAGE:812496 5' similar to SW:KRB4_SHEEP P02445 KERATIN, HIGH-SULFUR MATRIX PROTEIN, IIIB4. [1];
3798	16398	28863		0.0E+00		LN	Homo sapiens mRNA for KIAA0903 protein, partial cds
3801	16401			0.0E+00	7657468 NT	L	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA.
3810	16409	28874	96.0	0.05+00	+00 AB037835.1	⊥N	Homo sapiens mRNA for KIAA1414 protein, partial cds
3823	16423	28885	78.7	0.0E+00	7662183 NT	NT	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
3826	16426		23.27	0.0E+00	4506718 NT	LN	Homo sapiens ribosomal protein S2 (RPS2) mRNA
3834	16433			0.0E+00	7657065 NT	LN	Homo sepiens wets avian enythroblastosis virus E26 oncogene related (ERG), mRNA
3834	16433			0.0E+00		NT	Homo sapiens v-ets avian erythroblastosis virus E26 oncogene related (ERG), mRNA
3873	18471	28935				NT	Homo sapiens KIAA0022 gene product (KIAA0022), mRNA
3873	16471	28936	0.92	0.0E	1867	NT	Homo sapiens KIAA0022 gene product (KIAA0022), mRNA
3892	16491			0.0E	AF179733.1	N	Pan troglodytes offactory receptor (PTR208) gene, partial cds
3896	16495			0.0E+00		L	Homo sapiens similar to rat integral membrane glycoprotain POM121 (POM121L1), mRNA
3896	16495			0.0E	7657468 NT	L	Homo sapiens similar to rat Integral membrane glycoprotein POM121 (POM121L.1), mRNA
3900	16499	28962		0.0E	+00 AI377699.1	EST_HUMAN	te62f10.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA done IMAGE:2091307 3*
3901	16500		1.09	0.0E	AF15249	NT.	Homo sapiens protocadherin beta 3 (PCDH-beta3) mRNA, complete cds
3902	16501	28963	2:32	0.0E+00	4758199 NT	NT.	Homo sapiens desmoplakin (DPI, DPII) (DSP) mRNA
3805	16504	28968	10.94		0.0E+00 S78685.1	5	Homo sapiens ATP-sensitive inwardly rectifying K-channel subunit (KCNJ6/BIR1) gene, complete cds
3906	16505	28967	2.15		7710148 NT	NT	Homo sapiens methyl CpG binding protein 2 (MECP2), mRNA
3907	16508	28968	2.69		7662183 NT	LNT	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
3910	16509		1.1	0.0E+00		N,	Homo sapiens myosin light chain kinase isoform 2 (MLCK) mRNA, complete cds
3910	16509				AF06960	۲.	Homo sapiens myosin light chain kinase isoform 2 (MLCK) mRNA, complete cds
3916	16514	28977	0.84	0.0E+00	6912735 NT	Z	Homo sapiens transient receptor potential channel 5 (TRPC5), mRNA

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Exan SEQ ID NO: 0.00

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	Novel human gene mapping to chomosome 20	Homo sepiens chromosome 21 segment HS21C084	Hamo saplens chromosome 21 segment HS21C068	Homo sepiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA	Human zinc finger protein ZNF133	Chlorocebus sethiops mRNA for ribosomal protein S4X, complete cds	Homo sapiens mRNA for UGA suppressor tRNA-associated antigenic protein (tRNA48 gene)	Hamo sapiens chromosome 21 segment HS21C003	Homo sapiens mRNA for rapa-2 (rapa gene)	Homo sapiens mRNA for rapa-2 (rapa gene)	Homo sapiens retinoblastome-binding protein 4 (RBBP4) mRNA	Homo sapiens retinoblastome-binding protein 4 (RBBP4) mRNA	Homo sapiens phosphoribosy/glycinamide formytransferase, phosphoribosy/glycinamide synthetase, phosphoribosy/aninoimidazole synthetase (GART) mRNA	Homo sapiens G protein-coupled receptor 21 (GPR21), mRNA	Homo sapiens mRNA for KIAA0287 gene, partial cds	Homo sapiens ras GTPase activating protein-like (NGAP) mRNA	Homo sapiens IMP (inosine monophosphate) dehydrogenase 1 (IMPDH1), mRNA	Novel human mRNA from chromosome 1, which has similarities to BAT2 genes		Homo sapiens DGCR8 (DGCR8) mRNA, complete cds	Homo sepiens protein kinase, X-linked (PRKX) mRNA	Homo sapiens protein kinase, X-linked (PRKX) mRNA	Homo sapiens butyrophilin, subfamily 3, member A2 (BTN3A2), mRNA	Homo sapiens GA-binding protein transcription factor, alpha subunit (60kD) (GABPA), mRNA	Homo sapiens GA-binding protein transcription factor, alpha subunit (60kD) (GABPA), mRNA	Homo sapiens semenagelin II (SEMG2) mRNA	Homo sapiens hypothetical protein FLJ10379 (FLJ10379), mRNA	Homo sapiens hypothetical protein FLJ10379 (FLJ10379), mRNA		1	П	JMAN MR1-H10707-100500-001-a02 H10707 Home sapiens CDNA
Top Hit Database Source	E	N.	N	LN L	LN	ΝΤ	N.	L	LN	NT	LN	۲	 	Ę	N.	Ż	Ä	¥	EST_HUMAN	١	ΝΤ	ΙN	NT	ΝΤ	ΙN	N	LΝ	ΙN	Į.	EST_HUMAN	EST_HUMAN	EST_HUMAN
Top Hit Acession No.	+00 AL118494.1	+00 AL163284.2		4503470 NT	+00 U09366.1	1.1	+00 AJ238617.1	+00 AL163203.2	+00 AJ277278.1	+00 AJ277276.1	5032026 NT	5032026 NT	4503944	4885306 NT	0.0E+00 AB006625.1	28807	11419297 NT	+00 AL096857.1	+00 AA018975.1	0.0E+00 AF165527.1	4826947 NT			4503854 NT	4503854 NT			8922391 NT	:+00 AB020702.1	0.0E+00 AI982597.1	0.0E+00 AI982597.1	0.0E+00 BE184856.1
Most Similar (Top) Hit BLAST E Value	0.0E+00/	0.0E+00/	0.0E+00/	0.0E+00	0.0E+00	0.0E+00/	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	004	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Expression Signal	1.23	3.49	2.12	98.09	1.89	10.72	3.27	1.61	2.98	2.98	8.52	8.52	6	7.55	4.94	0.68	6.82	2.88	1:1	3.61	0.76	0.76	2.14	1.21	1.21	0.57	1.35	1.35	0.59	18.39	18.39	1.08
ORF SEQ ID NO:	29124	29126	29134		29150	29169		29185	29186	29187				28207						29218	L	26283							29242		29252	
SEQ ID NO:	16662	16685	16673	16888	16693	1	1		16733	16733	ı			16755	1		L			L	L	13773	16785		16786	L	<u></u>	L	l	16802	16802	16804
Probe SEQ ID NO:	4065	4069	4077	4080	4099	4120	4130	4140	4141	4141	4148	4148	37	4164	4185	4168	4169	4170	4171	4178	4189	4189	4195	4196	4196	4198	4200	4200	4208	4213	4213	4218

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					A.B. III	2011 - IDV	חוופת בעירון נכנסס בעירון כססק ווין סיים בועים
Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
4216	16804	29255	1.08	0.0E+00	T	EST HUMAN	MR1+HT0707-100500-001-e02 HT0707 Homo sapiens cDNA
4221	L		3.97	0.0E+00	Γ	Ι-	601120778F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2967690 5
4227	16815	29262	1.12	0.0E+00	0.0E+00 AB032951.1	Z	Homo sapiens mRNA for KIAA1125 protein, partial cds
4227	16815	29263	1.12	0.0E+00		LN-	Homo sapiens mRNA for KIAA1125 protein, partial cds
4229			2.51	0.0E+00	5729725 NT	NT	Homo sapiens nuclear receptor coactivator 3 (NCOA3), mRNA
4236	16824		5.9	0.0E+00		EST HUMAN	ba51f04.x1 NiH_MGC_10 Hamo sapiens cDNA done IMACE:2900095 3' similar to SW:THI2_BOVIN Q95108 MITOCHONDRIAL THIOREDOXIN PRECURSOR:
4241	16829	29279	1.14	0.0E+00		EST HUMAN	UI-HF-BM0-adx-c-02-0-UI.r1 NIH_MGC_38 Homo sapiens cDNA clone IMAGE:3063147 5
4242	16830	29280	1.64	0.0E+00	8922466 NT	22	Homo saplens hypothetical protein FLJ10498 (FLJ10498), mRNA
4242	16830		1.64	0.0E+00	8922466 NT	N	Homo sapiens hypothetical protein FLJ10498 (FLJ10498), mRNA
4251	16839		2.08	0.0E+00	5174632 NT	۲	Homo sapiens polycystic kidney disease (polycystin) and REJ (sperm receptor for egg jelly, sea urchin homolog)-like (PKDREJ) mRNA
4263	L	29297	1.06	0.0E+00	+00 AB037739.1	N	Homo sapiens mRNA for KIAA1318 protein, partial cds
							zu68h07.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:743197 3' similar to contains Alu
4270	16856	29303	10.06	0.0E+00	+00 AA401438.1	EST_HUMAN	repetitive element contains element MER35 repetitive element;
		ŀ					zu68h07.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:743197 3' similar to contains Alu
4270	_	١	10.06	0.0E+00		EST HUMAN	repetitive element; contains element MER35 repetitive element
4273		29308	1.01	0.0E+00	AF157476.1	NT	Homo sapiens DNA polymerase zata catalytic subunit (REV3) mRNA, complete cds
4286			1.02	0.0E+00	4507720 NT	NT	Homo sapiens titn (TTN) mRNA
4286			,	0.0E+00	4507720 NT	NT	Homo sepiens titin (TTN) mRNA
4301			1.09	0.0E+00	7861969 NT	NT	Homo sapiens KIAA0173 gene product (KIAA0173), mRNA
4305	16891	29333	1.6	0.0E+00	TN 6618614	LN.	Homo sepiens desmopiakin (DPI, DPII) (DSP) mRNA
4305		29334	1.8	0.0E+00	4758199 NT	NT	Homo sapiens desmoplakin (DPI, DPII) (DSP) mRNA
4314			0.72	0.0E+00	+00 AL163303.2	L	Homo sapiens chromosome 21 segment HS21C103
4344		29372	1.17	0.0E+00	+00 AJ003145.1	TN	Homo sapiens mRNA for offactory receptor protein, pseudogene
4346	16933	29374	96.0	0.0E+00	+00 AJ010770.1	NT	Hamo sepiens hyperion gene, exons 1-50
4380			17.92	0.0E+00	+00 J02610.1	IN	Human apolipoprotein B-100 mRNA, complete cds
4375	_	29408	0.84	0.0E+00	0.0E+00 AW936689.1	EST_HUMAN	PM2-DT0023-080300-004-a08 DT0023 Homo sapiens cDNA
4381	16968		0.59	0.0E+00	4828827 NT	IN	Homo sapiens myelodysplasia syndrome 1 (MDS1) mRNA
4381	16968	29416	0.59	00+30.0	4828827 NT	NT	Homo sapiens myelodysplasia syndrome 1 (MDS1) mRNA
4383	16970		4.39	0.0E+00	+00 AF174590.1	TN	Homo sapiens F-box protein Fbl4 (FBL4) mRNA, partial cds
4391	16977		2.19	0.0E+00	0.0E+00 A 189844.1	EST HUMAN	qd23f08.x1 Sogres_placenta_8to9weeks_2NbHP8to9W Homo sapiens cDNA clone IMAGE:1724579 3' similar to contains MER20.b2 MER20 repetitive element;
4305	1		4 49	0 0F+00	0 0F+00 U14520 1	12	Human CBFA3 (Cbfa3) gene, partial cds
	I				2010		

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Probe SEQ ID (Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acesslon No.	Top Hit Database Source	Top Hit Descriptor
4399	16984	29429	9.84	0.0E+00	TN 4524 NT	NT	Homo sapiens myelod/lymphod or mixed-lineage leukemia (trithorax (Drosophila) homolog); translocated to, 4 (MLLT4) mRNA
4418	17003	29446	6.0	0.0E+00	6563384 NT	NT	Homo sapiens protein kinase C, nu (PRKCN), mRNA
4418	17003	29447	6.0	L	6563384 NT	NT	Homo sapiens protein kinase C, nu (PRKCN), mRNA
4425	17010		1.16			LN	Human G2 protein mRNA, partial cds
4425	17010		1.16		U10991.1	TN	Human G2 protein mRNA, partial cds
4433	17019	29459	11.1	0.0E+00	TN 1822169	LΝ	Homo sapiens COMPLEMENT COMPONENT C1q RECEPTOR (C1QR), mRNA
4451	17037		1.13		0.0E+00 AF153047.2	LNT.	Homo sapiens gap junction protein connexin-36 (CX36) gene, complete cds
4480	17048	20489	4.6			LN	Homo sapiens plasma membrane calcium ATPase isoform 1 (ATP2B1) gene, elternative splice products, partial cds.
4484	17050		9	0.0E+		NT	H. saplens H2B/n gene
4464	17050		5.78			N	H.sapiens H2B/h gene
4470	17056			ļ		LN.	H. sapiens H4/d gene for H4 histone
4470	17056		1.97			LN	H.sapiens H4/d gene for H4 histone
4475	17080				7662091 NT	N	Homo sapiens KIAA0390 gene product (KIAA0390), mRNA
4475	17060		10.17	L	7862091 NT	NT	Homo sapiens KIAA0390 gene product (KIAA0390), mRNA
4484	17069	29519	1.11	0.0E+00		IN	Homo sapiens Menkes disease gene, exon 4
4487	17072	28523	16.07		4885126 NT	NT	Homo sapiens caudal type homeo box transcription factor 4 (CDX4), mRNA
4488	17073		1.73	0.0E+00		ΙN	Homo sapiens Xq pseudoautosomal region; segment 2/2
4491	17076	29526	1.14	0.0E+00	0.0E+00 AB037781.1	NT	Homo sapiens mRNA for KIAA1360 protein, partial cds
4526	17110	29554	1.43	0.0E	7019456 NT	LN	Homo saplens myosin regulatory light chain interacting protein (MIR), mRNA
4537	17121		7.31	0.0E+00	-00 AF195953.1	LN	Homo sapiens membrane-bound aminopeptidase P (XNPEP2) gene, complete cds
4545	17129	29572	1.27	0.0E+		NT	Homo saplens ACTN2 gene for alphe-Actinin 2, exon 10
4545	17129			0.0E	.1	NT	Homo sapiens ACTN2 gene for alpha-Actinin 2, exon 10
4549	17132			0.0E+	-00 W 26179.1	EST_HUMAN	24g7 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA
4549	17132	29580	0.58	0.0E+	00 W 26179.1	EST_HUMAN	24g7 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA
							Homo saplens spinocerebellar ataxla 1 (olivopontocerebellar ataxia 1, autosomal dominant, ataxin 1) (SCA1),
4555	17138	29585	6.07	0.0E+00	4506792 NT	Ļ.	mRNA
							Homo sapiens spinocerebellar ataxia 1 (divopontocerebellar ataxia 1, autosomal dominant, ataxin 1) (SCA1).
4555	17138	29586		0.0	4506792	z	インソニ
4567	17150			0.0E	1	L	Homo saptens HPS1 gene, intron 5
4585	17168	29811			0.0E+00 T10233.1	EST_HUMAN	seq1329 b4HB3MA Cot8-HAP-Ft Homo sapiens cDNA clone b4HB3MA-COT8-HAP-Ft205 5'
4585	17168			0.0E	0.0E+00 T10233.1	EST_HUMAN	seq1329 b4HB3MA Cot8-HAP-Ft Homo sapiens cDNA clane b4HB3MA-COT8-HAP-Ft205 5
4588	17171		0.65	0.0E⁴	-00 M14123.1	L	Human endogenous retrovirus HERV-K10

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
4589	17172	29616	1,48	90.0E	+00 AA228126.1	EST_HUMAN	π58c04.r1 Soares_NhHMPL_S1 Homo sapiens cDNA clone IMAGE:657590 5' similar to TR:G222811 G222811 ALPHA 1 CHAIN OF TYPE XII COLLAGEN.;
4589	17172	29617	1.48	30.0E	+00 AA228126.1	EST_HUMAN	π58c04.r1 Soares_NhHMPL_S1 Homo sapiens cDNA clone IMAGE:667590 5' similar to TR:G222811 G222811 ALPHA 1 CHAIN OF TYPE XII COLLAGEN.;
4599	17183	29630	6.46	90.0	+00 AW084964.1	EST_HUMAN	xx68608.X1 NCI_CGAP_Eso2 Homo sapiens cDNA clone IMAGE:2589446 3' similar to SW:AHNK_HUMAN Q09666 NEUROBLAST DIFFERENTATION ASSOCIATED PROTEIN AHNAK;
4601	18007		2.1	0.0E+00	8051619 NT	IN	Homo sapiens LIM domain kinase 2 (LIMK2), transcript variant 2a, mRNA
4603	17188	29633	0.92	30.0 -	+00 Al696698.1	EST HUMAN	wc56b02.x1 NCL_CGAP_Pr28 Homo sapiens cDNA clone IMAGE.2322603 3' similar to contains MER22.b2 PTR5 repatitive element ;
4607	1			90.0E		Z	Homo sapiens chromosome 21 segment HS21C007
4609	17192			0.0E	+00 AW381570.1	EST_HUMAN	PM1-HT0305-101199-002-d03 HT0305 Homo sapiens cDNA
4615				90.0E		NT	Homo sapiens mRNA for putative ankyrin-repeat containing protein (ORF1)
4615	17198	29646		0.0E	+00 AJ278120.1	NT	Homo sapiens mRNA for putative ankyrin-repeat containing protein (ORF1)
4617	17200		2.01	0.0E	4758467 NT	NT	Homo sapiens G protein-coupled receptor 50 (GPR50) mRNA
4818	17201			0.0E	+00 AF108830.1	IN	Homo sapiens serine-threonine protein kinase (MNBH) mRNA, complete cds
4623	17206	28655	1.19	0.0E+00	4506952 NT	Į,	Homo sapiens sialytransferase 8 (alpha-N-acetyineuraminate: alpha-2,8-sialytransferase, GD3 synthase) (SIAT8) mRNA
4628	17211	28661	1.16	90.0E	+00 AF111163.1	IN	Homo sapiens pyrin (MEFV) gene, complete cds
4628	17211	29962			AF111163.1	NT	Homo sapiens pyrin (MEFV) gene, complete cds
4837	L				0.0E+00 6005973 NT	NT	Homo sapiens zinc finger protein 195 (ZNF195), mRNA
4642	17224	29678			0.0E+00 AF208161.1	NT	Homo sapiens syncytin precursor, mRNA, complete cds
4647			1.66		0.0E+00 AF152337.1	NT	Homo sapiens protocadherin gamma C3 (PCDH-gamma-C3) mRNA, complete cds
4650	17232			0.0E+00		IN	Homo sapiens zinc finger protein 211 (ZNF211), mRNA
4662	17244	29698	32.6		4503470 NT	LZ	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
4671	17253		0.79	0.0E+00	4505016 NT	뉟	Homo sapiens low density lipoprotein receptor-related protein 6 (LRP6) mRNA, and translated products
4675	17257	29708	1.02	L	4503098 NT	Z	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (GSPG4), mRNA
4879			1.14		4502556 NT	NT	Homo saplens calcium/calmodulin-dependent protein kinase IV (CAMK4) mRNA
4684	17266		3.03		L35485.1	LN T	Homo sapiens iduronate sulphate sulphatase (IDS) gene, complete cds
4686	17268		9.75	0.0E+00	7662091 NT	NT	Homo sapiens KIAA0390 gene product (KIAA0390), mRNA
4686	17268	29717	9.75	90.0E	7662091 NT	N	Homo sapiens KIAA0390 gene product (KIAA0390), mRNA
4707	17289		3.17	90.0E	+00 AF143314.1	NT	Homo sapiens PTEN (PTEN) gene, exons 3 through 5
4710	17292	29736	11.37	90.0E	+00 AJ245418.1	TN	Homo sapiens mRNA for G7c protein (G7c gene located in the class III region of the major histocompatibility complex)

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לוויקים ראלון ו מימי רועלים האחרה ליינים האחרה ליינים האחרה ליינים האחרה ליינים האחרה ליינים האחרה ליינים האחרה	SEQ Expression (Top) Hit Top Hit Acession Database IO: Signal BLASTE No. Source Source	11.37	9738 0.64 0.0E+00 AB018338.1 NT Homo saplens mRNA for KİAA0785 protein, partial cds	N	EST_HUMAN	1.97 0.0E+00 7857410 NT Homo sapiens odz (odd Oz/ten-m, Drosophila) homolog 1 (ODZ1), mRNA	2.45 0.0E+00 AL163284,2 NT	6971	5.45 0.0E+00 AL163300.2 NT Homo septens chromosome 21 segment HS21C100		0.62 0.0E+00 AF195658.1	8.77 0.0E+00 4557887 NT	8.77	1.57 0.0E+00 AF167441.1 NT	1.13 0.0E+00 AB028970.1 NT	1.13	12.17	1.21 0.0E+00 BE081527.1 EST_HUMAN	1.04 0.0E+00 AA418246.1 EST_HUMAN	Homo sapiens truncated tenascin XB (TNXB) gene, partial cds and TNXA gene recombination breakpoint 2.04 0.0E+00/AF086641.1 NT region	1.09 0.0E+00 AL163278.2 NT	1.09	2.54 0.0E+00[AB037820.1 [NT	2.54 0.0E+00[AB037820.1	2.04	2 0.0E+00 8453812 NT	2 0.0E+00 6453812 NT	1.8 0.0E+00 T56945.1 EST_HUMAN	1.8 0.0E+00 T56945.1 EST_HUMAN	1.1 0.0E+00[BE278730.1 [EST_HUMAN]	0.64 0.0E+00 BE390050.1 EST_HUMAN	0.93 0.0E+00 5729817 NT	0.93
				9.0	1.6	1.9				1.9										2.0										1.			
	ORF SEQ	92 29737	L	66	111	13				18	20 29760	29770		29 29772		38 29784	44 29792		54 29806	8	65 29816	65 29817	66 29818	Ц	67 29820							96 29849	
	Exon D SEQ ID NO:	17292	17294	17299	17311	17313		17316			17320	L	Ш		Ц	17338	33 17344		17354	17360		17365	17366		17367				Ш				8 17396
	Probe SEQ ID NO:	4710	4712	4718	4730	4732	4734	4735	4736	473	4739	4747	4747	4748	4757	4757	4763	4772	4773	4779	4785	4785	4786	4786	4787	4792	4792	4794	4794	4797	4803	4818	\$

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Single Exon Probes Expressed in Petal Liver	ORF SEQ Expression (T ID NO: Signal BIL	29851 1.01 0.0E+00 U56651.1 NT	29854 5.32 0.0E+00 M80902.1 NT	29857 133.49 0.0E+00 M69197.1 (NT	17404 29858 133.49 0.0E+00 M69197.1 INT Human haptoglobin and haptoglobin related protein (HP and HPR) genes, complete cds	7407 29861 1.32 0.0E+00 AF184110.1 NT Homo sapiens cyclophillin-related protein (NKTR) gene, complete cds	29863 1.26	1.08 0.0E+00 X58467.1 NT	29888 0.83 0.0E+00 7304922 NT	29889 0.83 0.0E+00 7304922 NT	29899 1.3 0.0E+00 AF02680	29902	29903 0.91 0.0E+00 6677700 NT	29908	17454 29907 0.83 0.0E+00 7018320 NT Homo sepiens proteinx0008 (AD013), mRNA	29931 1.61 0.0E+00(AW44637.1 [EST_HUMAN]	28940 1.36 0.0E+00 AF303134.1 NT	1.51 0.0E+00 AF083242.1 NT	0,59 0.0E+00 AW339253.1	Homo sapiens glurathione S-transferase theta 2 (GSTT2) and glurathione S-transferase theta 1 (GSTT1) genes, complete cds	29987 1.76 0.0E+00 X87205.1 NT	29989 1.19 0.0E+00 AF084479.1 NT	28890 1.36 0.0E+00[AF097416.1 [NT	29991 4.69 0.0E+00 4503766[NT	29993 12.25 0.0E+00 4885048	29994 1.19 0.0E+00 P52740 SWISSPROT	29996 1.7 0.0E+00	17557 30000 5.09 0.0E+00 8923080 NT Homo sapiens hypothetical protein FLJ20073 (FLJ20073), mRNA	30004 1.8 0.0E+00 M94081.1 NT	30005 1.8 0.0E+00 M94081.1 NT	30007 1.78 0.0E+00 X94628.1 NT	17563 30006 1.78 0.0E+00 X94828.1 NT H-sapiens MeCP-2 gene
	SEQ ID	17397	17401	17404	17404	17407	17410	17429	17439	17439	17448	17451	17451	17454	17454	17475	17482	17485	17498	17542	17545	17547	L		17551		17554	17557	17561	ı	ı	17563
	Probe SEQ ID NO:	4819	4823	4826	4826	4829	4832	4851	4861	4861	4873	4876	4876	4879	4879	4900	4807	4910	4923	4968	4971	4973	4974	4975	4977	4978	4980	4983	4987	4987	4989	4989

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					- i G		
Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acessian No.	Top Hit Database Source	Top Hit Descriptor
4892	17566	30011	2.79	0.0E+00		FZ	Homo sapiens chromosome 21 segment HS21C080
4994	17568			l	0.0E+00 7708604 NT		Homo sapiens MAGE-C2 (MAGEC2), mRNA
				ı			Homo sapiens TATA box binding protein (TBP)-associated factor, RNA polymerase II, I, 28kD (TAF2I)
5005	17578	30022	0.95	0.0E+00	5032150 NT		шRNA
5015	17589	30032	1.75	0.0E+00	4585642 NT	LN T	Homo sapiens zinc finger protein (KIAA0412) mRNA
5016	l		0.64	0.0E+00	0.0E+00 AB037864.1	LΝ	Homo sapiens mRNA for KIAA1443 protein, partial cds
5017	<u>l_</u>				0.0E+00 AB014533.1	TN	Homo sapiens mRNA for KIAA0633 protein, partial cds
5018	L.		2.53	0.0E+00	6677648 NT	LN	Mus musculus zinc finger protein interacting with K protein 1 (Zik1), mRNA
5019	17593		2.01	0.0E+00	5174560 NT	LN	Homo saplens meningloma expressed antigen 6 (colled-coll proline-rich) (MGEA8), mRNA
5021				0.0E+00	4758199 NT	N L	Homo sapiens desmoplakin (DPI, DPII) (DSP) mRNA
5023	L			L		N	Homo sapiens gene encoding filensIn, exon 8
5024	1			0.0E+00	5174560 NT	LN.	Homo saplens meningioma expressed antigen 6 (colled-coil proline-rich) (MGEA8), mRNA
5024	ı				5174560 NT	N	Homo sapiens meningioma expressed antigen 6 (coiled-coil proline-rich) (MGEA6), mRNA
5028	1			0.0E+	AF055068.1	NT	Homo sapiens MHC class 1 region
5028				0.0	4505508 NT	LN	Homo sapiens opiold receptor, delta 1 (OPRD1) mRNA
5020		30048			AF091711.1	LN LN	Homo saplens splice variant AKAP350 mRNA, partial cds
							Homo sapiens farnesyl diphosphate synthase (famesyl pyrophosphate synthetase,
5041	17614	30058	2.27	0.0E+00	4503684 NT	NT	dimethylallyltanstransferase, geranyltranstransferase) (FDPS) mRNA
5043	17616		3.8		4557472 NT	TN	Homo sapiens chloride channel 5 (nephrolithiasis 2, X-linked, Dent disease) (CLCN5) mRNA
5043	L	Ĺ		0.0E+00	4557472 NT	LX	Homo sapiens chloride channel 5 (nephrolithiasis 2, X-linked, Dent disease) (CLCN5) mRNA
							qm15f05,x1 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1881921 3' similar to TR:Q81632 Q61632
5058	17631		0.59			EST_HUMAN	EN-2LACZ FUSION PROTEIN;
5061	17634	30076	2.85		1	L	Homo sapiens mRNA for KIAA0287 gene, partial cds
5061	17634	30077	2.85		0.0E+00 AB006625.1	LN	Homo sapiens mRNA for KIAA0287 gene, partial cds
	L						Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes,
5072	17645	30087	0.92	0.0E±	-00 AB026898.1	NT	complete cds)
5088	L	L	1.38	0.0 ₹	-00 AL163284.2	N.	Homo sapiens chromosome 21 segment HS21C084
5083	1			0.0E4	7662319 NT	۲	Homo sapiens KIAA0806 gene product (KIAA0806), mRNA
5103	L			0.0E	4502398 NT	ΙN	Homo sapiens beaded filament structural protein 1, filensin (BFSP1) mRNA
5108	L			0.054	-00 U14967.1	١	Human ribosomal protein L21 mRNA, complete cds
5118		30128		0.0E	-00 M10976.1	NT	Human endogenous retroviral DNA (4-1), complete retroviral segment
5121	↓_		2.86	0.0E	+00 BE408863.1	EST_HUMAN	601303728F1 NIH_MGC_21 Homo saplens cDNA clone IMAGE:3638118 5
5124	L	30133		0.0E	4758189 NT	LN	Homo sapiens desmoplakin (DPI, DPII) (DSP) mRNA
5135	1			O.OE	+00 AB028966.1	Z	Homo sapiens mRNA for KIAA1043 protein, partial cds
3	ı						

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Single Exon Probes Expressed in retail Liver	Top Hit Descriptor	Homo sapiens hypothetical protein FLJ20477 (FLJ20477), mRNA	Homo sapiens hypothetical protein FLJ20477 (FLJ20477), mRNA	no14g09.s1 NCI_CGAP_Phe1 Homo sapiens cDNA clone IMAGE:1100704 3' similar to TR:E239140 E239140 SPALT PROTEIN ;	no14g09.s1 NCI_CGAP_Phe1 Homo sapiens cDNA clone IMAGE:1100704 3' similar to TR:E239140 E239140 SPALT PROTEIN ;	no14g08.s1 NCI_CGAP_Phe1 Homo sapiens cDNA clone IMAGE:1100704 3' similar to TR:E239140 E239140 SPALT PROTEIN :	Homo sapiens HSPC114 mRNA, complete cds	Homo sapiens HSPC114 mRNA, complete cds	Homo sapiens DNA mismatch repair protein (MLH3) gene, complete cds	Homo sapiens E2F transcription factor 2 (E2F2) mRNA	Homo sapiens E8-AP ubiquitin-protein ligase (UBE3A) gene, exon 3	Homo sapiens MHC class 1 region	Homo sapiens chromosome 21 segment HS21C009	Homo sapiens gammma-cytoplasmic actin (ACTGP3) pseudogene	Bacillus amyloliquefaciens sacB gene for levansucrase (EC 2.4.1.10)	Homo sapiens vascular endothellal cadherin 2 mRNA, complete cds	Homo sapiens vascular endothelial cadherin 2 mRNA, complete cds	Homo sapiens cyclophilin (USA-CYP) mRNA	Homo sapiens G-protein coupled receptor (RE2), mRNA	Homo sapiens ring finger protein (RNF), mRNA	Human cellular fibronectin mRNA	Human callular fibronectin mRNA	Human hereditary haemochromatosis region, histone 2A-like protein gene, hereditary haemochromatosis (HLA-H) cane. RoRet cane, and sodium phosphata transporter (NPT3) sene, completa cds	Human endogenous retrovirus-K, LTR U5 and gag gane	Homo sapiens solute carrier family 5 (inositol transporters), member 3 (SLC5A3), mRNA	Human olfactory receptor-like gene, complete cds	Human olfactory receptor-like gene, complete cds	Homo sapions 4F2 light chain (LOC51597), mRNA	Homo sapiens 4F2 light chain (LOC51597), mRNA	Homo sapiens KIAA0971 protein (KIAA0971), mRNA
Exon Propes	Top Hit Database Source			EST HUMAN	EST_HUMAN		LN	LZ	NT				NT			NT	NT	NT				NT	F	N _T	72	LΝ	NT	L/Z	Z	NT L
Single	Top Hit Acession No.	8923441 NT	8923441 NT	+00 AA601248.1	+00 AA601248.1	+00 AA601246.1	0.0E+00 AF161463.1	0.0E+00 AF161463.1	+00 AF195658.1	4758225 NT	0.0E+00 AF016705.1	J53588.1	0.0E+00 AL163209.2	0.0E+00 D50657.1	<52988.1	4F240635.1	4F240635.1	5454153 NT	6877700 NT	5902055 NT	M10905.1	+00 M10905.1	J91328.1	Y08032.1	5902091 NT	.35475.1	.35475.1	7706245 NT	7706245 NT	7662421 NT
	ig + u	0.0E+00	0.0E+00	0.0E+00/	0.0E+00	0.0E+00/	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 U53588.1	0.0E+00	0.0E+00	0.0E+00)	0.0E+00	0.0E+00	0.0E+00	00+30.0	0.0E+00	0.0E+00 M10905.1	0.0E+00	0.05+00 U91328.1	0.0E+00 Y08032.1	0.0E+00	0.0E+00 L35475.1	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	Expression Signal	1.89	1.89	1.07	1.07	1.07	0.98	98:0	0.58	1.72	0.94	0.87	1.3	29.82	3.38	1.23	1.23	96.0	0.95	0.77	1.03	1.03	. 0.93	0.84	0.67	1.1	1.1	0.81		0.6
	ORF SEQ. ID NO:		30153	30165	30166	<u> </u>	30168	30169			30189							30254	30271			30287	88606						30317	
	SEQ ID NO:	17722	17722	17738	17738	17738	17739	17739	12887	17753	17764	17769	17778			17828			17844			17862	17863	17870	17888			17901	17901	17902
	Probe SEQ ID NO:	5152	5152	5170	5170	5170	5172	5172	5183	5188	5199	5204	5211	5214	5245	5266	5286	5267	5282	5298	9300	5300	5301	5308	5326	5333	5333	5340	5340	5341

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
5347	17807	30322	25.99	0.0E+00	100 302610.1	NT	Human apolipoprotein B-100 mRNA, complete cds
5355	17915	30330	0.98	0.0E+00	100 U71601.1	±N.	Human zinc finger protein zfp47 (zf47) mRNA, partial cds
5357	Ĺ		1.08	0.0E+00	00 P51523	SWISSPROT	ZINC FINGER PROTEIN 84 (ZINC FINGER PROTEIN HPF2)
5365	L			0.0E+00	HO M19828.1	NT	Human apolipoprotein B-100 (apoB) gene, exons 22 through 29
5373	I _	30348	11.28	0.0E+00	5360213 NT	TN	Homo sapiens glypican 3 (GPC3) mRNA
5374		L	1.1	0.0E+00	4826777 NT	LZ	Homo saplens jumonji (mouse) homolog (JMJ) mRNA
5377	1	L	0.68	0.0E+00	+00 AE000327.1	IN	Escherichia coli K-12 MG1655 section 217 of 400 of the complete genome
5385	1			0.0E+00	4502152 NT	INT	Homo sapiens apolipoprotein B (including Ag(x) antigen) (APOB) mRNA
5399	17957		1.01	0.0E+00	4885474 NT	NT	Homo sapiens melanoma antigen, family C, 1 (MAGEC1), mRNA
5430	l	L		0.0E+00	4826977 NT	TN	Homo sapiens reelin (RELN) mRNA
5451				0.0E+00	+00 AF093093.1	TN	Homo sapiens aconitase (ACO2) gene, nuclear gene encoding mitochondrial protein, exon 15
5459	1.	30411	2.26	0.0E+00		TN	Homo sapiens keratin 12 (KRT12) gene, complete cds
5459			2.26	0.0E+00	+00 AF137286.1	NT	Homo sapiens keratin 12 (KRT12) gene, complete cds
5478	18112			0.0E+00	+00 AI934954.1	EST_HUMAN	wp06g08.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2464094 3'
5481	L	L	2.18	0.0E		9256579 NT	Homo sapiens protocadherin alpha 13 (PCDHA13), mRNA
5495		30537	3.75	0.0	+00 BE931080.1	EST_HUMAN	RC3-GN0076-310800-013-b03 GN0076 Homo sapiens cDNA
548	l		3.31	0.0E+00	+00 AF182034.1	IN	Homo sapiens polycystic kidney disease-like 2 protein (PKDL2) mRNA, complete cds
5499	18133		3.31	0.0E+00	+00 AF182034.1	NT	Homo sapiens polycystic kidney disease-like 2 protein (PKDL2) mRNA, complete cds
5508	18139	30550	2.08	90.0	+00 X56163.1	LN	H.sapiens immunoglobulin heavy chain gene, variable region
5508	1_			0.0E	+00 X58163.1	Ŋ	H. sapiens immunoglobulin heavy chain gene, variable region
5584	I_			0.0E	+00 BE675498.1	EST_HUMAN	7f10c06.x1 NCI_CGAP_CLL1 Home sapiens cDNA clone IMAGE:3294250 3'
	<u>.</u>	İ				TARREST EQU	hisse02.x1 NCI_CGAP_Lu24 Home sepiens cDNA done IMAGE:3165194 3' similar to SW:Y054_HUMAN passed hyporthetical prometin kitaansa
5585	18216	30000	70.	0.0	+00 BE220/33.1	ENT HIMAN	B01589422F1 NIH MGC 7 Home sapiens cDNA clone IMAGE:3943804 5
	1			o U	+00 RF794412 1	EST HUMAN	[601589422F1 NIH MGC 7 Home sapiens cDNA clone IMAGE:3943804 5
25.00 25.00	Ш	30870		90.0	+00 M29908.1	LN LN	Homo saplens eosinophii peroxidase (EPP) gene, exon 7
280	1			90.0	11421038 NT	LN LN	Homo sapiens Sp4 transcription factor (SP4), mRNA
2808				90.0	BF6659	EST_HUMAN	602118928F1 NIH_MGC_56 Homo saplens cDNA clone IMAGE:4278254 5
5614		30694		90.0E	+00 BE538857.1	EST_HUMAN	801061489F1 NIH_MGC_10 Hamo sapiens cDNA clone IMAGE:3447839 5'
5822	ı		1.49	90.0	+00 BE292784.1	EST_HUMAN	801105891F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2988310 5
5826	ĺ	30724			+00 BF526328.1	EST_HUMAN	602071372F1 NCI_CGAP_Bm64 Homo saplens cDNA clone IMAGE:4214272 5
5626	•			L	0.0E+00 BF526328.1	EST_HUMAN	802071372F1 NCI_CGAP_Bm64 Homo sapiens cDNA clone IMAGE:4214272 5
8				L	4557364 NT	LN	Hamo sapiens Bloom syndrome (BLM) mRNA
58 84 84	18276	30751	6.0		0.0E+00 AB007835.1	ΙN	Homo sapiens mRNA for KIAA0466 protein, partial cds

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					1-15)	1-15)	1), mRNA		sapiens cDNA clone GEN-418D05		sapiens cDNA clone GEN-418D05	'9988 5'	'9988 5'	35.	CNA1G), mRNA	95		35.	3.5'	1), mRNA	1), mRNA	mplete cds	mplete cds			ONA clone IMAGE:1757730 3'	ne HFBCM48	AAGE:3061658 5'					
ביפוס ביאור ביפוס ביאור פייס ביאור פייס	Top Hit Descriptor	Homo sapiens mRNA for KIAA0466 protein, partial cds	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds	Human gene for dihydrolipoamide succinytransferase, complete cds (exon 1-15)	Human gene for dihydrolipoamide succiny/transferase, complete cds (exon 1-15)	Homo sapiens offactory receptor, family 2, subfamily F, member 1 (OR2F1), mRNA	H.sapiens mRNA for myosin	HUM418D05B Clontech human fetal brain polyA+ mRNA (#6535) Homo sapiens cDNA clone GEN-418D05		HUM418D05B Clontech human fetal brain polyA+ mRNA (#6535) Homo sapiens cDNA clone GEN-418D05 5'	602042322F1 NCI_CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4179988 5	602042322F1 NCI_CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4179988 5	601897658F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4128815 5'	Homo sapiens calcium channel, voltage-dependent, alpha 1G subunit (CACNA1G), mRNA	601150252F1 NIH_MGC_19 Hamo sapiens cDNA clane IMAGE:3502909 5'	MR0-SN0037-030400-001-h07 SN0037 Homo sapiens cDNA	601105291F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE: 2987903 5	601105291F1 NIH_MGC_15 Homo sepiens cDNA clone IMAGE:2987903 5'	Homo sapiens offactory receptor, family 2, subfamily F, member 1 (OR2F1), mRNA	Homo sapiens offactory receptor, family 2, subfamily F, member 1 (OR2F1), mRNA	Homo sapiens very long-chain acyl-CoA synthetase homolog 1 mRNA, complete cds	Homo sapiens very long-chain acyl-CoA synthetase homolog 1 mRNA, complete cds	Homo sapiens Surf-5 and Surf-6 genes	Homo sapiens Surf-5 and Surf-6 genes	qf94g10.x1 Soares, placenta_8to9weeks_2NbHP8to9W Homo sapiens cDNA clone IMAGE:1757730.31 similar to SW.CADC HUMAN P55289 BRAIN-CADHERIN PRECURSOR:	EST02238 Fetal brain, Stratagene (cat#936208) Homo sapiens cDNA clone HFBCM48	UI-HF-BL0-adh-d-02-0-UI.r1 NIH_MGC_37 Homo sapiens cDNA clone IMAGE:3061658 5	H.sapiens isoform 1 gene for L-type calcium channel, exon 14 adnd 15	PM3-CT0263-091299-007-h05 CT0263 Homo sapiens cDNA	PM3-CT0263-091289-007-h05 CT0263 Homo sapiens cDNA	PM3-CT0263-091299-007-h05 CT0263 Homo sapiens cDNA	
מלץ מלץ		Homo	면어	Homo	Huma	Huma	Hamo	H.sap				Г	Г	Г	Homo	Г	_	1		Homo	Homo	Homo	Ното	Homo	Homo		Т	Ī	H	Г	Г	Г	Ī
	Top Hit Database Source	Į.	Z	Z	IN	Į,	_	Ę		EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	_	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	_	_	F	Ц	ΙN	Z	EST HUMAN	EST HUMAN	EST_HUMAN	N	EST_HUMAN	EST_HUMAN	EST_HUMAN	
D. B. D.	Top Hit Acession No.	Γ	Г	0.0E+00 AF257737.1		П	11420819 NT					-	0.0E+00 BF529931.1	П	11434392 NT	0.0E+00 BE260777.1 E	Γ	П	0.0E+00 BE292889.1 E	11420819 NT	11420819 NT				0.0E+00 AJ224639.1		Γ	Γ				Г	Į
	Most Similar (Top) Hit BLAST E Value	0.0E+00	0.05+00	0.0E+00	0.0E+00	0.0E+00 D26535.1	0.0E+00	0.0E+00		0.0E+00 D61564.1	0.0E+00 D61584.1	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	
<u> </u>	Expression Signal	6.0	4.93	4.93	1.42	1.42	1.98	0.86		0.89	0.89	5.12	5.12	2.7	4.03	1.49	4.96	2.42	2.42	1.67	1.67	4.39	4.39	2.56	2.56	0.72	6.38	6.29	1.35	1.78	1.78	1.78	,
	ORF SEQ ID NO.	30752	30756	30757	30771	30772	30803	30809		30833	30834	30838	30839	30843	31052	31090		31114	31115	31133	31134	31142	31143	31151	31152	31178	31184	31193	31202	31212	31213	31214	0,0,0
	Exon SEQ ID NO:	18276	18279	ı				18312		18330	18330	18333	18333	18338	18349		18388	1	18400	ı	18418					18457	ł	ļ		18488	18488	18488	ı
	Probe SEQ ID NO:	5648	5652	5652	5665	5865	2680	5686		5704	5704	5707	5707	5712	5723	5753	5762	5775	5775	5783	5793	5800	5800	5806	5806	5833	5837	5844	5856	5866	5866	2866	6070

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Oligie Lydin i Olde Lydingsed III i del Live	Top Hit Descriptor	Homo sapiens mRNA for KIAA1641 protein, partial cds	Homo sapiens KVLQT1 gene	Homo sapiens KVLQT1 gene	HA2981 Human fetal liver cDNA library Homo saplens cDNA	Homo sapiens protocadherin beta 2 (PCDHB2), mRNA	601584032F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3938551 5/	Homo sapiens amiloride-sensitive cation channel 1, neuronal (degenerin) (ACCN1), mRNA	801345141F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3877843 S'	Mus musculus aczonin (Acz), mRNA	Human L-type calcium channel beta-1 subunit (CACNLB1) gene, exon 13B and Isoform beta-1B, complete cds	Human L-type calcium channel beta-1 subunit (CACNLB1) gene, exon 13B and isoform beta-1B, complete	spo	602036272F1 NCI_CGAP_Brn64 Homo sapiens cONA clone IMAGE:4184321 5'	Homo sapiens calcium channel gamma 5 subunit (CACNG5) gene, exon 4 and complete cds	601104462F1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3347463 5'	hz83d11,x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3214581 3' similar to TR:O62084 Q62084 PHOSPHOLIPASE CNEIGHBORING	602185852F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4310076 5'	2x99d06.s1 Soares_NhHMPu_S1 Homo sapiens cDNA clone IMAGE:811883 3'	Homo sapiens cadherin 20 (CDH20) mRNA, complete cds	RC5-ET0027-210600-022-G10 ET0027 Homo sapiens cDNA	601645287F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:3930453 5'	xp65f03.x1 NCI_CGAP_Ov39 Home sapiens cDNA clone IMAGE:2745245 3' similar to TR:P78335 P78335 GUANYLATE KINASE ASSOCIATED PROTEIN. ;	601558060F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:3827775 5'	801568060F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:3827775 5'	he34d08.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2875595 3' similar to TR:Q9Z1N3	G9Z1N3 MYOSIN-KHOGAP PROTEIN, MYR / .	QV4-HT0894-290900-399-a10 HT0894 Homo sapiens cDNA	QV4-HT0894-290900-399-e10 HT0894 Homo sapiens cDNA	zc08h06.r1 Soares_parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:321755 5	zc08h06.rf Soares_parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:321755 5'	Homo sapiens familial mental retardation protein 2 (FMR2) gene, exon 14
Topic Lines	Top Hit Database Source	TN	±N FN	±.	EST_HUMAN		EST_HUMAN 6		EST_HUMAN 6		T P		NT	T_HUMAN	TN.	EST_HUMAN 6	EST HUMAN F	EST HUMAN 6		N T	EST_HUMAN F	EST_HUMAN 6	EST_HUMAN C	EST_HUMAN 8	Г	Г	П	╗			T_HUMAN	±
218110	Top Hit Acession No.	E+00 AB046861.1	E+00 AJ006345.1	E+00 AJ006345.1	E+00 A1207616.1	3801	0.0E+00 BE791173.1	3943		10048478 NT	E+00 U86961.1			0.0E+00 BF338835.1										0.0E+00 BF031742.1	Γ			٦		П	0.0E+00 W33069.1	
-	Most Similar (Top) Hit BLAST E Vafue	0.0E+00	0.0E+00/	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00		0.0E+00	0.0E+00	0.0E+00	0.05+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00		0.0E+00/	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00/
	Expression Signal	1,02	1.48	1.48	1.29	4.89	1.09	1.29	6.36	1.48	3.25		3.25	2.23	0.88	3.17	1.22	2.27	4.14	3.11	2.35	1.25	0.9	96.0	96.0	,	1.03		1.1	1.38	1.38	2.2
	ORF SEQ ID NO:	31244								31343	31344	l .			Ŀ	31366	31379	31385				31425	31447							31490		
	Exan SEQ ID NO:	18519	18573					18607	18608	18609	18610					18631	18639	L			18679		18700		l	l		- 1				18739
	Probe SEQ ID NO:	5897	5951	5951	5958	5975	2980	2987	2988	5989	2990		2880	8008	6010	6011	6020	6024	6028	8060	6062	9909	6083	6093	6093		6104	8115	6115	6123	6123	6124

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	SEQ Expression (Top) Hit Top Hit Acassion No. Signal BLAST E No. Source Source	31495 3.14 0.0E+00 BE280197.1 EST_HUMAN 601158515F1 NIH_MGC_21 Home sapiens cDNA clone IMAGE:3505323 5	1.88 0.0E+00[BE889610.1 EST_HUMAN	1.46 0.0E+00 11433071 NT	1.46 0.0E+00 11433071 NT	1.15 0.0E+00 BE901608.1 EST_HUMAN	1.15 0.0E+00 BE901608.1 EST_HUMAN	1.15 0.0E+00 BE901608.1 EST_HUMAN	31540 10.16 0.0E+00 9789998 NT Homo sapiens potassium voltage-gated channel, Shal-related subfamily, member 2 (KCND2), mRNA	1.38 0.0E+00 AA193506.1 EST_HUMAN	31544 1.38 0.0E+00 AA193506.1 EST HUMAN SW:YY05, HUMAN P42894 HYPOTHETICAL MYELOID CELL LINE PROTEIN 5.	12.83 0.0E+00 U34625.1 NT	12.83	1.35 0.0E+00 BE258330.1 EST_HUMAN	1.64	1.54 0.0E+00 BE379007.1	1.23 0.0E+00 AU137772.1 EST_HUMAN	3.42 0.0E+00[U45982.1	4.13	3.66	3.66	0.7	1.87	3.62 0.0E+00 BE257173.1 EST_HUMAN	0.94 0.0E+00 AI686048.1 EST HUMAN	1.39 0.0E+00 L35930.1 INT	1.03 0.0E+00 BE797385.1 EST_HUMAN	1.03 0.0E+00 BE797385.1 EST_HUMAN	0.96 0.0E+00 BF357123.1 [EST_HUMAN	1.83
	ORF SEQ Express ID NO: Signs		31503					31524	31540	31543	31544	31568							31717			31737	31753							31806
-	Exon ORF	18742				18762	18762	18762	24758	18779	18779	18799	18799					18913	18940	18941	18941	18959	18975	18979	18991	18995				19022
	Probe SEQ ID NO:	6127	6133	6148	6148	6149	6149	6149	6164	6167	6167	6180	6189	6229	6238	6280	6286	9089	6334	6335	6335	6354	6371	6375	8388	6392	6401	6401	6411	8419

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Probe SEQ ID NO:	Exen SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
6428	19031	31814		0.0E+00	0.0E+00 D55649.1	TN	Human mRNA for alpha mannosidase II isozyme, complete cds
6442	180 440	31832	1,11	0.0E+00	00 AW 178142.1	EST_HUMAN	IL3-HT0062-010999-014-A04 HT0082 Hamo sapiens cDNA
0,0	500,	9,000			O OE - OO DE 874644 1	MAMILL TOT	7e02c12.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3281302 3' similar to SW:Y176_HUMAN 014881 HYPOTHETICAL PROTEIN KIAA0178 :
2040	300	21040	90.0	1	7AR2020 NT	L L	Homo saniens KIAA0285 dene product (KIAA0285), mRNA
8 8	200	20012			AVERNOON 4	EST HIMAN	AV850020 GLC Homo septiens cDNA clone GLCCAD09 3'
3	18081					EST LIMAN	III.HE.RI 0.acc-1.12-0-11 st NIH MGC 37 Home sapiens cDNA clone IMAGE:3058751 3'
88	- 1	318/1	3.19		0.0E+00 AW3/3396.1	NAME TO THE	CITIT Storage placenta Nh2HP Homo sapiens CDNA clone IMAGE:149933 5
8	- 1	318/4			101233.1	EST TOWN	The reach of wall or production was in a trained or production of mandomerorides.
6501	19101	31886	3.3		0.0E+00 X15377.1	Z	numan gene ich die light ein heavy chains ur inyeque oxidase
6503	19103	31888	1.02	0.0E+	00 Al612841.1	EST_HUMAN	257408.x1 NCI_CGAP_Ov35 Homo sepiens cDNA clone IMAGE:2282887.3 similar to SW:N1CS_HUMAN P53798 SODIUM-AND CHLORIDE-DEPENDENT CREATINE TRANSPORTER 2:
6209	19109		4.18		0.0E+00 BE735989.1	EST_HUMAN	601305368F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3639616 5'
6209	l_		4.19		0.0E+00 BE735989.1	EST_HUMAN	801305388F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3639616 5'
6513					0.0E+00 AW748596.1	EST_HUMAN	MRO-BT0264-221199-002-f11 BT0264 Homo sapiens cDNA
8513					0.0E+00 AW748598.1	EST_HUMAN	MR0-BT0264-221199-002-f11 BT0264 Hamo sapiens cDNA
8515	19115	31904	167.18		0.0E+00 AU119245.1	EST_HUMAN	AU119245 HEMBA1 Hamo sapiens cDNA clone HEMBA1005360 5
8515					0.0E+00 AU119245.1	EST_HUMAN	AU119245 HEMBA1 Homo sapiens cDNA clone HEMBA1005360 5'
6519	ı				0.0E+00 BE780453.1	EST_HUMAN	601468712F1 NIH_MGC_67 Hamo sapiens cDNA clone IMAGE:3871889 5'
6520	ł				0.0E+00 X92217.1	LN	H.sapiens germline immunoglobulin heavy chain, variable region, (13-2)
6531	L				0.0E+00 AI989483.1	EST_HUMAN	ws25c07.x1 NCI_CGAP_GC8 Homo sapiens cDNA clone IMAGE:2498220 3'
6543			2.84		0.0E+00 BE293153.1	EST_HUMAN	601105344F1 NIH_MGC_15 Homo sepiens cDNA clone IMAGE:2987963 5'
8543	<u> </u>				0.0E+00 BE293153.1	EST_HUMAN	801105344F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2887963 5
9099	L	32009	1.05		0.0E+00 AW 406348.1	EST_HUMAN	UI-HF-BL0-aco-h-02-0-UI.r1 NIH_MGC_37 Homo sapiens cDNA clone IMAGE:3059931 5
9099	19203	32010	1.05		0.0E+00 AW406348.1	EST_HUMAN	UI-HF.BL0-aco-h-02-0-UI.r1 NIH_MGC_37 Hamo sapiens cDNA clane IMAGE:3059931 51
4634	19230	32034	5.36		0.0E+00 AV719444.1	EST_HUMAN	AV719444 GLC Hamo sapiens cDNA clone GLCEHC08 5'
6642	L	32040	1.02		0.0E+00 BE898340.1	EST_HUMAN	601681150F1 NIH_MGC_9 Hamo sapiens cDNA clone IMAGE:3951301 5'
6642	L				0.0E+00 BE898340.1	EST_HUMAN	601881150F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3951301 5
	L						Homo sapiens low voltage-activated T-type calclum channel alpha 1G splice variant CavT.1a (CACNA1G)
6645	19241	32044	2.16		AF190860.1	NT	mRNA, complete cds
8648	19244		1.05		0.0E+00 11420658 NT	NT	Homo sapiens transformation/transcription domain-associated protein (TRRAP), mRNA
8855	19251		3.35		0.0E+00 AW 163640.1	EST_HUMAN	au98h08.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2784159 5' similar to TR:015390 015390 GT24, [3] TR:043840 TR:043206;
	1						aug0h08.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2784159 5' similar to
6655	19251	32054	3.35	0.0E	00 AW 163640.1	ES HOMAN	IN. O 18080 O 184, [8] IN. O48040 IN. O48200,

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					algi II.O	בשמטו וויישט	Single Lyon Flores Expressed III Fetal Liver
Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
6659	19255	32057	26'0	0.0E+00	+00 W37163.1	EST_HUMAN	220e06.11 Soares_fetal_lung_NbHL19W Homo sepiens cDNA clone IMAGE:302626 5' similar to SW:ZN45_HUMAN Q02386 ZINC FINGER PROTEIN 45;
6659	19255	32058		0.0		EST HUMAN	2b20e08.r1 Soares_fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE:302626 5' similar to SW:ZN45_HUMAN Q02386 ZINC FINGER PROTEIN 45:
6871	1			0.0		EST_HUMAN	601589371F1 NIH_MGC_7 Homo sapiens cDNA clone IMACE:3943504 5
6678	19274			0.0	+00 BE799873.1	EST_HUMAN	601587561F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3941847 5
6682		32081		0.0E		EST_HUMAN	601512058F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3913311 5'
6682			7.35	0.0E	+00 BE889813.1	EST_HUMAN	601512058F1 NIH_MGC_71 Homo sepiens cDNA clone IMAGE:3913311 5
888				0.0E		TN	Human antigen CD27 gene, exons 1-2
9694	19290		2.03	0.0E+00	+00 AL 163204.2	LN	Homo saplens chromosome 21 segment HS21C004
6694				0.0E+00	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
6700	19296	32100		0.0E+00	IN 0865009	NT TA	Homo sapiens zona pellucida glycoprotein 3A (sperm receptor) (ZP3A), mRNA
6703	19298	32102	3.88	30 0	+00 Al6384121	FST HUMAN	#31f11.x1 NCI_CGAP_GC6 Homo sepiens cDNA clone IMAGE:2242413 3' similar to SW:WNT3_MOUSE_P17553 WNT.3 PROTO-ONCOGENE PROTEIN PRECI IRSOR
6704	L			9.0E		L	Homo sapiens zinc finger homeodomain protein (ATBF1.4) mRNA, complete cds
8714	19308		0.78	0.0E+00	0.1	EST HUMAN	UI-HF-BNO-ama-c-01-0-UI.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3081217 5
6716	19310	32113	3.78	0.0E+00	+00 AA434584.1	EST HUMAN	Zw52c03.r1 Soares_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:773688 5
6730			1.08	30 [.] 0		EST_HUMAN	601885317F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4103693 5'
6734						EST_HUMAN	QV3-BN0047-300800-278-c06 BN0047 Homo sapiens cDNA
6774				Ш		EST_HUMAN	AU125928 NT2RM4 Homo sapiens cDNA clone NT2RM4002430 5'
6776	19368					EST_HUMAN	PM2-NN0174-260700-001-h10 NN0174 Homo sapiens cDNA
6776			0.73		0.0E+00 BE701434.1	EST_HUMAN	PM2-NN0174-260700-001-h10 NN0174 Homo sapiens cDNA
6795	ļ					EST_HUMAN	CM0-HT0143-270999-062-408 HT0143 Hamo sapiens cDNA
8815	19406	32222					RC0-BN0121-280300-032-604 BN0121 Hamo sapiens cDNA
6815	ı					EST_HUMAN	RC0-BN0121-280300-032-e04 BN0121 Homo sapiens cDNA
6835						EST_HUMAN	PM3-HT0520-230200-002-c08 HT0520 Homo sapiens cDNA
6837			1.62	0.0E+00		EST_HUMAN	IL5-GN0032-180900-145-407 GN0032 Homo sapiens cDNA
6873				0.0E+00		EST_HUMAN	zp88e03.r1 Stratagene HeLa cell s3 937216 Homo sapiens cDNA clone IMAGE:627292 5:
6882	19617	32452	66.0	0.0E+00	+00 U39573.1	NT	Human salivary peroxidase mRNA, complete cds
							7849b07.x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:3222037 3' similar to TR:Q9Z285 Q9Z285
888	19820	32454	١			EST_HUMAN	TEKTIN
6892	- 1	۱	6.2			EST HUMAN	IL3-ST0024-230799-001-B01 ST0024 Hamo sapiens cDNA
6892	19626	ļ			AI940621.1	EST_HUMAN	L3-ST0024-230799-001-801 ST0024 Homo saplens cDNA
6902	- 1	32474	2.67	0.0E+00	11435626 NT	LN.	Homo sepiens CD6 antigen (CD6), mRNA

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Single Exon Probes Expressed in Petal Liver	RF SEQ Expression (Top) Hit Acession On Signal BLAST E No. Source Source	32499 0.82 0.0E+00 AL039581.1 EST_HUMAN DKFZp434D2211_11 434 (synonym: htes3) Hamo sapiens cDNA clone DKFZp434D2211 5/	0.82 0.0E+00 AL039581.1 EST_HUMAN	32505 8.1 0.0E+00 BF306996.1 [EST_HUMAN 601889823F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4123948 5'	32509 2.1 0.0E+00 U41302.1 NT Human chromosome 16 creatine transporter (SLC6A8) and (CDM) paralogous genes, complete cds	32292 1.1 0.0E+00 AL049784.1 NT Novel human gene mapping to chomosome 13	0.89 0.0E+00[AU137738.1 [EST_HUMAN [0.89 0.0E+00 AU137738.1 EST_HUMAN	1.43 0.0E+00[AW954806.1 EST_HUMAN	1.06 0.0E+00 BE254103.1 [EST_HUMAN]	1.23 0.0E+00 L01973.1 (NT	0.71 0.0E+00 AB007935.1 NT	0.0E+00 AB007935.1 NT	32584 1.97 0.0E+00 AU133213.1 EST_HUMAN AU133213 NT2RP4 Homo sepiens cDNA clone NT2RP4001556 5'	:8081 NT	0.0E+00[AU143708.1 EST_HUMAN	32608 1.2 0.0E+00 4758839 NT Homo sapiens netrin 1 (NTN1), mRNA	0.0E+00 BE891286.1 EST_HUMAN	32618 1.83 0.0E+00 BE691286.1 EST_HUMAN 601431819F1 NIH_MGC_72 Homo sepiens cDNA clone IMAGE:3917164 5	2.27 0.0E+00 AF137286.1	2.27 0.0E+00 AF137286.1 NT	32646 0.78 0.0E+00 BE747231.1 EST_HUMAN 601580948F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3929722 5'	0.78 0.0E+00 BE747231.1 EST_HUMAN	4.67 0.0E+00] 11436699 NT	32860 4.67 0.0E+00 11436699 NT Homo sapiens vitamin D (1.25- dhydroxyvitamin D3) receptor (VDR), mRNA	qc67a07.x1 Soares_placenta_8tp9wæeks_2NbHP8to9W Homo sepiens cDNA clone IMAGE:1714644 3' similar to SW:ARSD_HUMAN P51689 ARYLSULFATASE D PRECURSOR; contains element HGR	32688 28.50 0.0E+00 Al128344.1 EST_HUMAN repetitive element;	qc67a07.x1 Soares_placenta_8to9weeks_2NbHP8to9W Homo sapiens cDNA clone IMAGE:1714644 3'	32689 28.85 0.0E+00 A128344.1 EST HUMAN repetitive element:	4.05 0.0E+00 11426392 NT	11426392 NT	14.08 0.0E+00 BF337375.1 EST_HUMAN 602035089F1 NCI_CGAP_Brn64 Horno sepiens cDNA clone IMAGE:4182839 5'
																2	38										i					1,
	ORF SEQ.															.52							L					-			19832 3269	19835
	SEQ ID	19660	19660	5 19666	19670	19472	19699						5 19726	19732		19752	2 19753	19762	19762		18094	3 19791		19802	19802	<u> </u>	19830		19830	1		Ш
	Probe SEQ ID NO:	7089	7089	7095	7100	7132	7167	7167	7173	7174	7187	7195	7195	7201	7216	7221	7222	7231	7231	7252	7252	7263	7263	7274	727		7302		7302	7304	7304	7307

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Single Excit Propessed in ordinated	Top Hit Descriptor	zn60f09.r1 Stratagene muscle 837209 Homo sapiens cDNA clone IMAGE:562601 5' similar to TR: 0806562 G806562 NEBULIN.;	DKFZp434B0228_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434B0226 5	DKFZp434B0226_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434B0226 5	601174576F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3529794 5	Homo sapiens hypothetical protein (FLJ20261), mRNA	AU118607 HEMBA1 Hamo sapiens cDNA clone HEMBA1003969 5	Homo sapiens ankyrin 1 (ANK1) mRNA, complete cds	Homo sapiens ankyrin 1 (ANK1) mRNA, complete cds	Homo sapiens adlican mRNA, complete cds	H. sapiens DNA for ZNGP2 pseudogene, exon 4	Human P2x1 receptor mRNA, complete cds	Human P2x1 receptor mRNA, complete cds	EST368573 MAGE resequences, MAGD Homo sapiens cDNA	EST362586 MAGE resequences, MAGA Homo sepiens cDNA	AF001543 Human cDNA (Chandrasekharappa,S.C.) Homo sapiens cONA clone kappa_200	AF001543 Human cDNA (Chandrasekharappa,S.C.) Homo saplens cDNA clone kappa_200	AF001543 Human cDNA (Chandrasekharappa, S.C.) Homo sapiens cDNA clone kappa_200	Human BTF3 protein homologue gene, complete cds	601302679F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE;3637434 5'	ym88h10.r1 Soares adult brain N2b4HB55Y Homo sapiens cDNA clone IMAGE:166051 5'	xb39a05.y1 NCI_CCAP_Lu31 Homo sapiens cDNA clone IMAGE:2578640 5' similar to TR:Q08050 Q08050	HNF3/FH TRANSCRIPTION FACTOR GENESIS	AU117553 HEMBA1 Homo sapiens cDNA clone HEMBA1001661 5	Homo sapiens glucagon-like peptide 2 receptor (GLP2R), mRNA	zn56f02,r1 Stratagene muscle 937209 Homo sapiens cDNA clone IMAGE:582203 5' similar to gb:X03740 MYOSIN HEAVY CHAIN SKELETAL MUSCLE (HUMAN):		Homo septens zinc linger nomeodomain protein (A LDT I-A) IIIN VA., Complete Cus	601889823F1 NIH_MGC_17 Homo sapiens cDNA cione IMAGE:4123948 5	601889823F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4123948 5	AU118767 HEMBA1 Homo sapiens cDNA clone HEMBA1004314 5	cn17d05.x1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NHTBC_cn17d05 random
EXOII FIODES	Top Hit Database Source	EST_HUMAN	EST_HUMAN		T_HUMAN		EST_HUMAN	NT	N	ΝΤ	NT	NT	۲Z	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	LΝ	EST_HUMAN	EST_HUMAN		EST_HUMAN	EST_HUMAN	NT	NAM I		L _N	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN
Pignic	Top Hit Acession No.	0.0E+00 AA128453.1	0.0E+00 AL079497.1	0.0E+00 AL079497.1	0.0E+00 BE295499.1	11427985 NT			0.0E+00 AF005213.1	0.0E+00 AF245505.1	X70172.1	J45448.1	J45448.1	00 AW956503.1	0.0E+00 AW950516.1	0.0E+00 AF001543.1	0.0E+00 AF001543.1	00 AF001543.1	+00 M90354.1	-00 BE408293.1	+00 R87430.1		+00 AW239326.1	AU117553.1	+00 11427135 NT	4 6 24 4 6 62 4	PK 1990.1	0.0E+00 L32832.1	0.0E+00 BF30696.1	+00 BF30698.1	-00 AU118767.1	+00 AI752561.1
	Most Similar (Top) Hit BLAST E Value	0.0E+00/	0.0E+00	0.0E+00/	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 X70172.1	0.0E+00 U45448.1	0.0E+00 U45448.1	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	00+30.0	0.0E+00	0.0E+00		0.0E+00	0.0E+00	0.0E+00	00.70.0	0.05.00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	Expression Signal	3.30	6.0	6.0	1.2	98.0	2.37	1.77	1.77	0.99	8.87	8.18	8.18	86:0	3.25	1.04	1.04	2.	0.78	0.71	1.16		2.37	1.19	3.61	00 0	8.5	0.82	96.0	96.0	1.48	4.53
	ORF SEQ ID NO:	32695	32701	32702	32741	32742		32745	32746	32754	32758	Ì								32815	l		32841		32855			32877	32894		32905]
	SEQ ID NO:	19837	19841	19841	19875	19877	19880	19881	19881	19891	19897	19899	19899	19911	19913	L					L		19976	19990				20011	20030		<u> </u>	
	Probe SEQ ID NO:	7309	7314	7314	7349	7351	7354	7355	7355	7365	7371	7373	7373	7385	7387	7408	7408	7408	7425	7428	7451		7452	7468	7470		7482	7488	7509	7509	7517	7561

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E G	000		Most Similar		Top Hit	
S S S S S S S S S S S S S S S S S S S	0 NO.	Expression Signal	(Top) Hit BLAST E Value	Top Hit Acession No.	Database Source	Top Hit Descriptor
20687	33599			BE745597.1	EST HUMAN	601578195F1 NIH MGC 9 Hano saciens cDNA clone IMAGE:3926998 5
20687	33600	1.55		0.0E+00 BE745597.1	EST_HUMAN	601578195F1 NIH_MGC_9 Hamo sapiens cDNA clone IMAGE:3926998 5
20699	33613		l,		LZ	Homo sapiens Xq pseudoautosomal region; segment 1/2
20719	33634		0.0E	+00 D45032.1	NT	Human DNA for ceruloplasmin, exon 5
20739	33651	1.47	0.0E+00	Al367350.1	EST HUMAN	qv95c12.x1 NCI_CGAP_U2 Homo sapiens cDNA clone IMAGE:1969334 3' similar to TR:Q14673 Q14673 KIAA0164 PROTEIN :
20752	33666	3.14	0.0E+00	BE674157.1	EST HUMAN	7d76e04.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3278862 3' similar to TR:095793 095783 STAUFEN PROTEIN :
20754	33668	1.31	0.0E+00	AI885671.1	EST HUMAN	WIG0b10.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone INAGE:2429275 3' similar to SW:COGT_HUMAN P50281 MATRIX METALLOPROTEINASE-14 PRECI IRSOR
20765	33682	1.38	0.0E+00	_	Π	601334780F1 NIH MGC 39 Hamo saplens cDNA clone IMAGE:3688655 5
20765	33683	1.38	0.0E+00		Γ	601334780F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3688655 5'
20772	33692	1.63	0.0E+00	11427235		Homo sapiens Chediak-Higashi syndrome 1 (CHS1), mRNA
20772	33693	1.63	0.0E+00		NT	Homo sapiens Chediak-Higashi syndrome 1 (CHS1), mRNA
20774	33695	1.7	0.0E+00	AA403192.1	EST_HUMAN	zv66f02.r1 Soeres, total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:758619 5' similar to TR:G1304132 G1304132 TPRD.
20774	33696	1.7	0.0E+00	AA403192.1	EST_HUMAN	zv66f02.r1 Soeres, total fetus, Nb2HF8_9w Homo saplens cDNA clone IMAGE:758619 5' similar to TR:G1304132 G1304132 TPRD
20816		4.36	0.0E+00		EST HUMAN	zi73808.s1 Sogres_tests_NHT Homo sapiens cDNA clone IMAGE:727958 3' similar to gb:S85655 PROHIBITIN (HUMAN);
20824	33745	0.5	0.0E+00		Γ	RC2-FN0094-120600-013-h07 FN0094 Homo sapiens cDNA
20825	33748	1.22	0.0E+00			QV3-DT0045-221299-048-c07 DT0045 Homo sapiens cDNA
20825	33747	1.22	0.0E+00			QV3-DT0045-221299-048-c07 DT0045 Homo sapiens cDNA
20844	33766	1.24	0.0E+00			801452412F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3858179 5'
20844	33767	1.24	0.0E+00			801452412F1 NIH_MGC_86 Hamo sapiens cDNA clone IMAGE:3856179 5'
20859	33784	1.28	0.0E+00			Homo sapiens chromosome 21 segment HS21C009
20859	33785	1.28	0.0E+00		Ι	Homo sapiens chromosome 21 segment HS21C009
20867	33790	0.76	0.0E+00			wm33a11.x1 NCI_CGAP_Ut4 Homo saplens cDNA clone IMAGE:2437724 3' similar to TR:075457 075457 CYTOSOLIC PHOSPHOLIPASE A2-GAMMA.
20874	33796	0.93	0.0E+00			ne25d10.s1 NCI_CGAP_Co3 Homo sapiens cDNA clone IMAGE:882259 3' similar to TR:G1136434 G1136434 KIAA0187 PROTEIN .:
20879		0.64	0.0E+00	11416799		Homo sapiens protocadherin beta 3 (PCDHB3), mRNA
20886	33807	1.33	0.0E+00			ta04f11.x1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:2043117.3
20889		4.86	0.0E+00		П	601431238F1 NIH_MGC_72 Homo sepiens cDNA clone IMAGE:3916569 51
	20739 20739 20754 20772 20774 20774 20774 20859 20859 20859 20857 20859		33666 33668 33668 33682 33682 33692 33692 33692 33695 33746 33746 33746 33767 33786 33786 33786	33666 3.14 0.0E 33668 1.31 0.0E 33683 1.38 0.0E 33682 1.38 0.0E 33682 1.63 0.0E 33682 1.03 0.0E 33682 1.03 0.0E 33682 1.03 0.0E 33784 1.22 0.0E 33784 1.26 0.0E 33784 1.26 0.0E 33785 1.26 0.0E 33786 0.83 0.0E 33787 1.26 0.0E 33789 0.83 0.0E	33651 1.47 0.0E+00 AI865671.1 33688 1.31 0.0E+00 AI865671.1 33682 1.38 0.0E+00 BE63350.1 33682 1.38 0.0E+00 BE63350.1 33682 1.38 0.0E+00 BE63350.1 33682 1.38 0.0E+00 AA403192.1 33692 1.63 0.0E+00 AA403192.1 33745 0.5 0.0E+00 AA403192.1 33746 1.22 0.0E+00 AA398511.1 33747 1.22 0.0E+00 AW394874.1 3376 1.24 0.0E+00 AW394874.1 3376 1.26 0.0E+00 AH39851.1 33799 0.76 0.0E+00 AI884477.1 33799 0.76 0.0E+00 AI884477.1 33799 0.76 0.0E+00 AI884477.1 33799 0.76 0.0E+00 AI884477.1 33807 1.28 0.0E+00 AI884477.1	33666 3.14 0.0E+00 AI885671.1 EST_HUMAN 33668 1.31 0.0E+00 AI885671.1 EST_HUMAN 33682 1.38 0.0E+00 BE563950.1 EST_HUMAN 33682 1.38 0.0E+00 BE563950.1 EST_HUMAN 33692 1.63 0.0E+00 AA403192.1 EST_HUMAN 33745 1.22 0.0E+00 AA403192.1 EST_HUMAN 33746 1.22 0.0E+00 AA403192.1 EST_HUMAN 33767 1.24 0.0E+00 AA403192.1 EST_HUMAN 337767 1.22 0.0E+00 AA398511.1 EST_HUMAN 33777 1.22 0.0E+00 AA398511.1 EST_HUMAN 33778 1.24 0.0E+00 AA39851.1 EST_HUMAN 33779 0.0E+00 BE812508.2 NT 33785 1.28 0.0E+00 AL163208.2 NT 33786 0.0E+00 AL163208.2 NT 33787 1.28 0.0E+00 AL163208.2 NT 33787 1.28 0.0E+00 AL163208.2 NT 33787 1.28 0.0E+00 AL163208.2 NT 33787 1.28 0.0E+00 AL163208.2 NT 33787 1.28 0.0E+00 AL163208.2 NT 33788 1.28 0.0E+00 AL163208.1 EST_HUMAN 33789 0.0E+00 AL163208.1 EST_HUMAN 33789 0.0E+00 AA502294.1 EST_HUMAN 33789 0.0E+00 AI880780.1 EST_HUMAN 33789 0.0E+00 BE80780.1 EST_HUMAN 33789 0.0E+00 BE80780.1 EST_HUMAN

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8374 8374 8375 8376 850 10 850	m % - 1111111111111111111111111111111111	R C NOON ON ON ON ON ON ON ON ON ON ON ON O	Signal Si		Top Hit Acesslon No. No. AW245765.1 AW245765.1 AW245765.1 AW245760.1 4758695 4758695 AB8022.1 X98922.1 AW131671.1 BE733946.1 BE733946.1 BF733946.1 BF733946.1	Top Hit Detabase Source Source Source EST_HUMAN NT NT NT NT NT NT NT NT NT NT NT NT NT	Top Hit Descriptor 2822701. Sprime NIH_MGC_7 Homo sepiens cDNA clone IMAGE:2822701 5' 2822701. Sprime NIH_MGC_7 Homo sepiens cDNA clone IMAGE:2822701 5' 4000 sepiens mitogen-activated probain kinase kinase kinase 13 (IMAP3K13), mRNA 4000 sepiens mitogen-activated probain kinase kinase kinase sinase 13 (IMAP3K13), mRNA 4000 sepiens mitogen-activated probain kinase kinase kinase 13 (IMAP3K13), mRNA 4000 sepiens mitogen-activated probain kinase kinase kinase sinase 13 (IMAP3K13), mRNA 4000 sepiens mitogen-activated probain kinase kinase kinase kinase 13 (IMAP3K13), mRNA 4000 sepiens mitogen-activated probain kinase kinase kinase 13 (IMAP3K13), mRNA 4000 sepiens mRNA for gamme-glutamytranisferase 400 sepiens mRNA for gamme-glutamytranisferase 400 sepiens mRNA for gamme-glutamytranisferase 400 sepiens mRNA for gamme-glutamytranisferase 400 sepiens mRNA for gamme-glutamytranisferase 400 sepiens mRNA for gamme-glutamytranisferase 400 sepiens mRNA for gamme-glutamytranisferase 400 sepiens mRNA for gamme-glutamytranisferase 400 sepiens mRNA for gamme-glutamytranisferase 400 sepiens mRNA for gamme-glutamytranisferase 400 sepiens mRNA for gamme-glutamytranisferase 400 sepiens mRNA for gamme-glutamytranisferase 400 sepiens mRNA for gamme-glutamytranisferase 400 sepiens mRNA for gamme-glutamytranisferase 400 sepiens mRNA for gamme-glutamytranisferase 400 sepiens mRNA for gamme-glutamytranisferase 400 sepiens mRNA for gamme-glutamytranisferase 400 sepiens mRNA for gamme-glutamytranisferase 400 sepiens mRNA for gamme-glutamytranisferase 400 sepiens copported formin sepiens cDNA clone IMAGE:2000 5' 400 sepiens mRNA for gamme fetal brain potyA+ mRNA fw853) Homo sapiens cDNA clone IMAGE:2000 5' 400 sepiens seukcyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 3' 400 sepiens seukcyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 3' 400 sepiens seukcyte immunoglobulin-like receptor, subfamily Rome IMAGE:2000 5' 3' imiliar to TR:01004 14
860	ı				0.0E+00 BF377897.1	EST_HUMAN	OM1-TN0141-250900-439-b08 TN0141 Homo sapiens cUNA
8608	1 1				0.0E+00 AL163301.2	NAM IL TOO	Homo sapiens chromosome 21 segment HS21C101 Ro1150051F1 NIH MGC 19 Homo sapiens cDNA clone IMAGE:3502836 5'
8					0.0E+00 BE260272.1	EST HUMAN	602127664F1 NIH MGC 56 Home capiens cDNA clone IMAGE:4284542 5
8	- 1		2.58	ı	0.0E+00 BF700165.1	EVI TOMAIN	SALANDOSTE NITE AND ES HOME SERVICE ON CONTRACTOR CONTRACTOR CONTRACTOR AND AND ESCAPERATION OF THE PROPERTY O
ş	9 21158	34072			BF700165.1	EST_HUMAN	602127664F1 NIH MGC_36 Homo sapiens cuna cione invade: 4264342 3

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	Top Hit Descriptor	602127664F1 NIH_MGC_56 Home sapiens cDNA clone IMAGE:4284542 5'	tk13h11.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE.2150949 3'	AL 449770 Homo sapiens fetal brain (Stavrides GS) Homo sapiens cDNA	or80g02 s1 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1602194 3' similar to gb:M36072 60S RIBOSOMAL PROTEIN L7A (HUMAN):	Homo sapiens ankyrin 1, erythrocytic (ANK1), transcript variant 1, mRNA	Homo sapiens ankyrin 1, erythrocytic (ANK1), transcript variant 1, mRNA	Homo sapiens ITGB4 gene for integrin beta 4 subunit, exons 3-41	601156330F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3139734 5'	AV718377 FHTB Homo sapiens cDNA clone FHTBAAF11 5'	xw73c07.x1 NCI_CGAP_Pan1 Homo sepiens cDNA clone IMAGE:2833644 3' similar to gb:X53587 INTEGRIN BETA-4 SUBUNIT PRECURSOR (HUMAN);	AU124051 NT2RM2 Homo sapiens cDNA clone NT2RM2001575 5'	AU140704 PLACE4 Homo sapiens cDNA clone PLACE4000089 5'	Homo sapiens mRNA for KIAA0454 protein, partial cds	yg09e09.r1 Soares Infant brain 1NIB Homo sapiens cDNA clone IMAGE:31674 5'	yg09e09.r1 Soares infant brain 1NIB Homo sapiens cDNA clone IMAGE:31674 5'	hf48a09.x1 Sogres_NFL_T_GBC_S1 Homo saplens cDNA clone IMAGE:2935096 3'	hf48a09.x1 Soures_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2835096 3'	AU128804 NT2RP2 Homo sapiens cDNA clone NT2RP2004245 5'	AV714764 DCB Hamo sapiens cDNA clone DCBAUA06 5'	DKFZp434C1814_s1 434 (synonym; https3) Homo sapiens cDNA clone DKFZp434C1814 3'	DKFZp434C1814_s1 434 (synonym: https3) Homo sapiens cDNA clone DKFZp434C1814 3'	Homo sapiens killer inhibitory receptor 2-2-1 (KIR221) and killer inhibitory receptor 2-2-2 (KIR222) genes,	partial cds	Homo sapiens mRNA for KIAA1512 protein, partial cds	602138483F1 NIH_MGC_83 Homo saplens cDNA clone IMAGE:4274708 5'	7K29b03.x1 NCI_CGAP_Ov18 Homo sapiens cDNA clone IMAGE:3476692 3' similar to TR:036448 036448	S GAG.;	Homo sapiens tumor protein p73 (TP73), mRNA	Human Ig rearranged H-chain epsilon-3 pseudogene, constant region	Homo sapiens mRNA for KIAA0823 protein, partial cds	Homo sapiens mRNA for KIAA0823 protein, partial cds	AV660739 GLC Homo saplens cDNA clone GLCGKG12 3'
	Top Hit Detabase Source	EST_HUMAN	EST HUMAN	EST_HUMAN	EST HUMAN	Z	LN	LX.	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	TN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN		L	LN	EST_HUMAN		EST_HUMAN	LN⊤	IN	LN	⊥N	EST_HUMAN
,	Top Hit Acession No.	BF700165.1	0.0E+00 AI458722.1	0.0E+00 AL449770.1	0.0E+00 AA962527.1	10947037 NT	10947037 NT			0.0E+00 AV718377.1	AW337277.1	0.0E+00 AU124051.1	AU140704.1	AB007923.1	R17132.1	0.0E+00 R17132.1	0.0E+00 AW 592233.1	0.0E+00 AW 592233.1	0.0E+00 AU128804.1	AV714764.1	0.0E+00 AL040428.1	AL040428.1		0.0E+00 AF133901.1	0.0E+00 AB040945.1	BF675505.1		0.0E+00 BF058289.1	11422857 NT	K01241.1	0.0E+00 AB020630.1	AB020630.1	AV660739.1
	Most Similar (Top) Hit BLAST E Value	0.0E+00	0.0E+00	0.0E+00	0.05+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00			l	0.0E+00	0.0E+00	0.0E+00						0.0E+00			0.0E+00	0.0E+00	0.0E+00
	Expression Signal	2.58	0.63	2.45	18 43	4.67	4.67	1.28	1.76	4.02	3.11	1.42	6.0	0.54	9.0	9.0	3.85	3.85	0.5	1.27	2.8	2.6		1,55	1.68	0.54		0.97	6.2	1.15	4.14	41.4	1.61
	ORF SEQ ID NO:		34090		34123		34132		34161		34175	34180		34269	34272	34273	34275	34276	34311	34321	34335	34336			34345						34395		
	SEQ ID	21158			21206	21212	ł	!	21238	21247	21254	21260	21335		21349	21349					21413	21413		- 1	21420			21429	21459	21468		21475	
	Probe SEQ ID NO:	8619	8633	8660	8667	8673	8673	8697	8699	8708	8715	8721	8796	8806	8810	8810	8814	8814	8849	8859	8874	8874		8880	8882	8889		8891	8921	8930	8937	8937	8942

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	Top Hit Descriptor	Homo sapiens polycystin-L (PKDL), mRNA	601588304F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3942553 5'	Homo sapiens mRNA for KIAA1251 protein, partial cds	Homo sapiens mRNA for KIAA1251 protein, partial cds	yu03h08.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:232787 5'	601141119F1 NIH_MGC_9 Hamo sapiens cDNA clone IMAGE:3140740 5'	601141119F1 NIH_MGC_9 Hamo sapiens cDNA clane IMAGE:3140740 5'	601452582F1 NIH_MGC_88 Homo sapiens cDNA clone iMAGE:3856100 5'	601452582F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3856100 5'	Human polymorphic loci in Xq28	Human mRNA for GABA-A receptor, alpha 1 subunit	an 29e04.x1 Gessler Wilms tumor Homo sapiens cDNA clone IMAGE:1700094 3'	wq34a12.x1 NCI_CGAP_GC8 Home sapiens cDNA clone IMAGE:2473150 3' similar to SW:MGB3_HUMAN O45480 MFI ANDMA-ASSOCIATED ANTIGEN B3	Homo sapiens protocadherin alpha 8 (PCDHA8), mRNA	EST370381 MAGE resequences, MAGE Homo sapiens cDNA	Human endogenous retrovirus, complete genome	AU142662 Y79AA1 Homo sapiens cDNA clone Y79AA1000678 5'	Homo sapiens MAP-kinase activating death domain (MADD), mRNA	601301878F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3838183 5'	7g97M12.71 NCI_CGAP_CO16 Home sapiens cDNA clone IMAGE:3314471 3' similar to TR:Q9UH62 Oni IHAP HYPOTHETICAL 42 5 KD PROTEIN	Hamo sapiens mRNA for KIAA0578 protein, partial cds	601589294F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943463 5'	RC3-PT0151-290800-011-c05 PT0151 Homo sapiens cDNA	RC3-PT0151-280600-011-c05 PT0151 Homo sapiens cDNA	AU136229 PLACE1 Homo sapiens cDNA clone PLACE1003804 5'	601510247F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3911986 5	601510247F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3911986 5	Homo sapiens mRNA for KIAA0594 protein, partial cds	EST50505 Gall bladder I Homo sapiens cDNA 5' end	EST50505 Gall bladder I Homo sapiens cDNA 5' end	ba54d08,y3 NIH_MGC_10 Homo sapiens cDNA clone INAGE:2800387 5' similar to TR:O80275 O80275 KIAA0522 PROTEIN ;
2000111000	Top Hit Database Source		T HUMAN		T T	EST_HUMAN y	Г	EST_HUMAN 6	EST HUMAN 6	T_HUMAN		⊥ LN	EST HUMAN	T	NEWDE	T HUMAN		T HUMAN		THUMAN	NAME TO TOO	Т	T HUMAN	EST_HUMAN I	EST_HUMAN			EST_HUMAN	INT.	EST_HUMAN	EST_HUMAN	EST HUMAN
Olligie Exoli	Top Hit Acession No.	7706638 NT	00 BE793326.1	0.0E+00 AB033077.1			0.0E+00 BE315402.1		0.0E+00 BE612721.1	1.			-		0.0E+00 A1834007.1 E3		0.0E+00 9635487 NT	0.0E+00 AU142662.1	11436995 NT	0.0E+00 BE410768.1	7	00 AB011150 1	00 BE794823.1	+00 BE810292.1	+00 BE810292.1	100 AU136229.1	+00 BE883843.1	+00 BE883843.1	+00 AB011186.1	+00 AA344801.1	-00 AA344601.1	+00 AW 673469.1
	Most Similar (Top) Hit BLAST E Value	0.0E+00	0.0E+00	0.0E+00/	0.0E+00	0.0E+00	0.0E+00	0.0E+00	00+30.0	00+30.0	0.0E+00 M89986.1	0.0E+00 X14766.1	0.0E+00	00.0	0.0E+00	00F+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	100	0.05+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	9.0
	Expression	3.39	2.58	0.58	0.58	1.07	4.52	4.52	0.68	0.63	0.58	1.84	2.5		1.82	24	2.81	1.13	1.25	0.9		- C8	7.17	0.52	0.52	1.17	1.18		0.79	1.84	1.64	0.85
	ORF SEQ ID NO:	34408		34414]_	34438				34458		ļ	34481				L			34557				L		L			34610	
	Exon SEQ ID NO:	21486	21481	21482	21492	21504	21514	21514	21524	21524	21527	21529	21548		21553 21558		1					21624					L	上	1	l		l
	Probe SEQ ID NO:	8948	8953	8954	8854	8968	8978	9876	9868	8888	8888	8891	8		9018	3 8	9	85.0	0206	9071		8080	9100	9104	9104	9107	9112	9112	9130	9133	9133	8188

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. Top Hit Descriptor	601145054F2 NIH_MGC_19 Home sapiens cDNA clone IMAGE:3160477 5'	C06158 Human pancreatic islet Homo sapiens cDNA clone hbc5605	C06158 Human pancreatic Islet Homo saptens cDNA clone hbc5605	601578683F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3927548 5'	Homo sapiens solute carrier family 21 (organic anion transporter), member 9 (SLC21A9), mRNA	Homo sapiens solute carrier family 21 (organic anion transporter), member 9 (SLC21A9), mRNA	Homo sapiens solute carrier family 21 (organic anion transporter), member 9 (SLC21A9), mRNA	601673425F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3956238 5'	AV701829 ADB Homo sapiens cDNA clone ADBBYH01 5'	Homo sapiens keratin 2e (KRT2E) gene, complete cds	Homo sapiens keratin 2e (KRT2E) gene, complete cds	RC2-BT0642-130300-017-g01 BT0642 Homo sapiens cDNA	UI-HF-BN0-akg-b-12-0-UI.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3076943 5'	UI-HF-BNO-akg-b-12-0-UI.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3076943 5'	Homo sapiens chromosome 9 duplication of the T cell receptor beta locus and trypsinogen gene families	Homo saplens chromosome 9 duplication of the T cell receptor beta locus and trypsinogen gene families	601470824F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3874037 5	601470824F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3874037 5'	2d16e11.r1 Soares_fetal_heart_NbHH19W Homo sapiens cDNA clone IMAGE:340844 5	2d16e11.r1 Soares_fetal_heart_NbHH19W Homo sapiens cDNA clone IMAGE:340844 5	Homo sapiens mRNA for neurexin i-alpha protein, complete cds	em56e11.x1 Johnston frontal cortex Homo saplens cDNA clone IMAGE:1539548 31	UI-HF-BN0-akj-c-07-0-UI:r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077384 5'	Multiple scierosis associated retrovirus polyprotein (pol) mRNA, partial cds	AIGF=androgen-induced growth factor AIGF (human, placenta, Genomic/mRNA, 498 nt, segment 5 of 5)	AIGF=androgen-induced growth factor AIGF (human, placenta, Genomic/mRNA, 498 nt, segment 5 of 5)	601334603F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3688680 5'	CM2-CT0311-301199-043-h11 CT0311 Homo saplens cDNA	
Top Hit Database Source	EST HUMAN 60	EST HUMAN CO	П	EST HUMAN 60				EST_HUMAN 60	EST_HUMAN AV	PH LN	F	EST_HUMAN RO	EST_HUMAN UI-	EST_HUMAN UI-	NT HQ	NT HO	EST HUMAN 60'	EST HUMAN 60	EST_HUMAN 2241	EST_HUMAN 241	NT	EST_HUMAN am	EST_HUMAN UI-	NT Mu	NT	NT AIC	EST_HUMAN 801	EST_HUMAN CN	
Top Hit Acession No.	+00 BE263191.1			0.0E+00 BE746215.1	11437282 NT	11437282 NT	11437282 NT	Γ		Γ	Γ	+00 BE082977.1	+00 AW 500283.1	+00 AW 500283.1	+00 AF029308.1						1	+00 AI124780.1	+00 AW 500528.1	+00 AF009668.1	+00 S78466.1		0.0E+00 BE563320.1 E	+00 AW363135.1	
Most Similar (Top) Hit BLAST E Value	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	00+30'0	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 S78486.1	0.0E+00	0.0E+00	
Expression Signal	6	4.5	4.5	2.7	2.92	2.92	2.92	1.89	0.76	2.38	2.38	1.32	1.86	1.86	1.75	1.75	0.72	0.72	1.14	1.14	1.05	0.64	2.65	1.48	2.21	2.21	2.54	1.5	
ORF SEQ ID NO:	34886	34922			34938	34937					34966	35001	35021	35022	35028	35029	35030	35031	35043	35044	35055		35060	35107	35138	35139	35144	35161	
Exan SEQ ID NO:	21937	21972	21972	21974	21984	21984	21984	21877	21996	22008	22008	22040	22059	22059	22068	22068	22070	22070	22079	22079	22091	22095	22097	22140	22165	22165	22168	22188	
Probe SEQ ID NO:	9458	9448	9448	9448	9458	8458	92,58	9478	9488	8096	9208	9540	8228	9559	9568	8996	9570	9570	9579	9579	9591	9595	9597	9840	9986	9888	6996	6896	

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	ilar F	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
6866	22484	35471	0.92	0.0E+00	+00 AV895712.1	EST_HUMAN	AV895712 GKC Homo sapiens cDNA clone GKCDXA07 5'
9995	22480	35478	0.57	0.0E+00	+00 AF072408.1	NT	Homo sapiens killer cell inhibitory receptor KIRCI gene, exons 2, 3, and 4
266	L	35481	2.78	0.0E+00)	100 AA196387.1	EST_HUMAN	zp97h11.r1 Stratagene muscle 937209 Homo sapiens cDNA clone IMAGE:628197 5'
10020	22515	35508	1.61	0.0E+00	+00 AA131248.1	EST_HUMAN	zi31f01.r1 Sogres_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:503545 5'
10020	L	35509	1.61	0.0E+00	+00 AA131248.1	EST_HUMAN	zl31f01,r1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:503545 5
10061	22558		1.58	00+30.0			Homo sapiens KIF4 (KIF4) mRNA, complete cds
10102		35590	0.75	0.0E+00	+00 BE880658.1	HUMAN	801491565F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3893657 5'
10113	22608	35598	11.65	0.0E+00		EST_HUMAN	801570712F1 NIH_MGC_21 Homo saplens cDNA clone IMAGE:3845403 5'
10113	L	35599	11.65	0.0E+00	+00 BE730772.1		801570712F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3845403 5'
10118	_		1.05	0.0E+00	+00 AU127403.1	EST_HUMAN	AU127403 NT2RP2 Homo sapiens cDNA clone NT2RP2001212 5'
10127	22622		66.0	00+30.0		EST_HUMAN	601845134F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:3930177 5'
10127	L		0.99	0.0E+00		EST_HUMAN	801845134F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:3930177 5
10142		35628	62.0	0.0E	+00 BE897487.1	EST_HUMAN	601432317F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3917453 5
10153	1	L	0.78	90.0	+00 AA311624.1	EST_HUMAN	EST182353 Jurkat T-cells VI Homo saplens cDNA 5' end
10154	22649			0.0E+00	1N 28827	NT	Homo sapiens neurexin III (NRXN3) mRNA
10167				0.0E+00	+00 BE891113.1	EST_HUMAN	801432228F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3917598 5'
10170		35660	1.29	0.0E+00	11560151 NT	NT	Homo sapiens hypothetical C2H2 zinc finger protein FLJ22504 (FLJ22504), mRNA
10179	i I	35668	1.47	0.0E+00		NT	Homo sapiens mRNA for actin binding protein ABP620, complete cds
10180	22675	35667	0.53	0.0E+00	+00 BE304522.1	EST_HUMAN	601105459F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2987918 5
10180		35668	0.53	0.0E+00	+00 BE304522.1	EST_HUMAN	601105459F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2887918 5'
10187	22682	35673	6.03	0.0E+00		NT	Homo sapiens mRNA for estrogen receptor beta, complete cds
10187	•	L	6.03	0.0E+00	+00 AB006590.1	NT	Homo sapiens mRNA for estrogen receptor bela, complete cds
10194	1 22689	35682	0.57	0.0E+00	+00 AA194770.1	EST_HUMAN	zq06h11.r1 Stratagene muscle 937209 Homo sapiens cDNA clone IMAGE:628965 5' similar to TR:G407097 G407097 165KD PROTEIN. ;
10108		35694	1 18	900	+00 AA704457 1	EST HUMAN	2/19b06.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:450707 3' similar to qb:M14123 cds1 RETROVIRUS-RELATED GAG POLYPROTEIN (HUMAN);
10198	L	35685		90.0	Γ	Į.	Human beta 1,4-galactosyt-transferase mRNA, complete cds
10200				90.0	.	EST_HUMAN	602037045F1 NCI_CGAP_Bm64 Homo saplens cDNA clone IMAGE:4184939 5'
10200	22695	L	5.5	0.0E		EST_HUMAN	602037045F1 NCI_CGAP_Bm64 Homo sapiens cDNA clone IMAGE:4184939 5'
10227	<u> </u>	35713	0.93	0.0E+00		EST_HUMAN	601439713F1 NIH_MGC_72 Hamo sepiens cDNA clane IMAGE:3924578 5'
10227				0.0E+00		EST_HUMAN	601439713F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3924578 5'
10256	l. I			0.0E+00		EST_HUMAN	AV716271 DCB Homo sapiens cDNA clone DCBBDC09 5
10256		35740	0.53	0.0E+00	+00 AV716271.1	EST_HUMAN	AV716271 DCB Hamo sapiens cDNA clone DCBBDC09 5

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Single Exon Probes Expressed in Fetal Liver	Top Hit Descriptor Source	wa36e03.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2300188 3' similar to TR:Q61204 Q61204 NOTCH2·LIKE;	we38e03.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2300188 3' similar to TR:Q61204 Q61204 NOTCH2-LIKE;	EST_HUMAN FB23A4 Fetal brain, Stratagene Homo sapiens cDNA clone FB23A4 3'end	EST_HUMAN AU122429 MAMMA1 Homo sapiens cDNA clone MAMMA1002368 5	EST_HUMAN nab45e12.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3265271 3'			Г	11436005[NT Homo sapiens hypothetical protein DKFZp781P1010 (DKFZp761P1010), mRNA	NT H saplens mRNA for NK receptor (183 Acti)	EST_HUMAN	EST_HUMAN	EST_HUMAN	INT	EST_HUMAN #54e07.x1 NCI_CGAP_GC8 Homo sapiens cDNA done IMAGE:22446123'	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	LN	NT Human mRNA for KIAA0056 gene, partial cds	EST_HUMAN			NT Human mRNA for KIAA0056 gene, partial cds	EST_HUMAN	EST_HUMAN	EST_HUMAN RC3-ST0197-120200-015-803 ST0197 Homo sapiens cDNA	EST_HUMAN EST376636 MAGE resequences, MAGH Homo sapiens cDNA		11431124 NT Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA
Bulo	Top Hit Acession No.	E+00 A1631818.1	E+00 AI631818.1	E+00 T03078.1	0.0E+00 AU122429.1	BF436218.1	AV654765.1	AW 517960.1	BE549213.1	114360	X89893.1	BE781742.1	0.0E+00 BE082720.1	BE082720.1	Y08032.1	AI656890.1	BE743215.1	BE743215.1	BE617655.1	0.0E+00 BE617655.1	D29954.1	D29954.1	H39805.1	AW748117.1	D87675.1	D29954.1	AV711075.1	AV711075.1	DE+00 AW813783.1	0.0E+00 AW963563.1	114311	114311
	Most Similar (Top) Hit BLAST E Value	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	D.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00		0.0E+00	0.0E+00	0.0E+00	0.0E+00
	Expression Signal	0.77	72.0	1.32	0.83	2.69	1.61	3.53	21.07	0.55	1.22	6	2.88	2.88	9.0	99.0	5.48	5.48	1.83	1.83	0.49	0.49	99:0	0.46	1.14	0.8	2.76	2.78	6.05	7.48	1.91	1.91
	ORF SEQ ID NO:	35770	35771	35782		35838		35854	35858	35874	35901			35930	35938	35947	35954					35961		68698	66698	36010		39098				36089
	Exon SEQ ID NO:	22780	22780	22792		22842	H	22861	22865	22880	22904	_		L	22931		22944		22947	Н		22952	22968				1		23055			23075
	Probe SEQ ID NO:	10285	10285	10298	10321	10348	10349	10367	10371	10386	10410	10411	10430	10430	10437	10443	10450	10450	10453	10453	10458	10458	10474	10487	10496	10508	10515	10515	10517	10525	10538	10538

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Probe SEQ ID NO:	SEQ ID	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
10540	23077	36091	1.82	30°0	+00 AW057621.1	EST_HUMAN	wy61f09.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:2553065 3' similar to TR:060566 Q60588 VDX ;
10549	23085	38088	2.26	0.0E	+00 BE243270.1	EST_HUMAN	TCAAP3D0917 Pediatric acute myelogenous leukemia cell (FAB M1) Baylor-HGSC project=TCAA Homo sapiens cDNA clone TCAAP0917
10550	23088	36100	2.73		0.0E+00 AI652239.1	EST_HUMAN	wb28a12.x1 NC_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2306974 3' similar to contains element MSR1 MSR1 repetitive element;
10550	23088	36101	2.73		0.0E+00 AI652239.1	EST_HUMAN	wb28a12.x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2306974 3' similar to contains element MSR1 MSR1 repetitive element ;
10561	23097				11545911 NT	L	Homo sapiens NOD2 protein (NOD2), mRNA
10561	23097	36111			11545911	. 1	Homo sapiens NOD2 protein (NOD2), mRNA
10576	23111				AW 404795.1	EST_HUMAN	UI-HF-BL0-acm-d-04-0-UI.r1 NIH_MGC_37 Homo sapiens cDNA clone IMAGE:3059383 5
10580	23115					N	Homo sepiens hypothetical protein FLJ20079 (FLJ20079), mRNA
10581	23116			0.0E+00		Z	Homo sapiens 5-hydroxydryptamine (serotonin) receptor 1E (HTR1E) mRNA
10581	23118	١	1		4504536 NT	LZ	Homo sapiens 5-hydroxydryptamine (serotonin) receptor 1E (HTR1E) mRNA
10582					0.0E+00 AI991827.1	EST HUMAN	wu32b08.x1 Soares_Dieckgradfe_colon_NHCD Homo sapiens cDNA clone IMAGE:2521715 3'
10585			2.57		0.0E+00 BE882109.1	EST_HUMAN	601505204F2 NIH_MGC_71 Homo saplens cDNA clone IMAGE:3906865 5'
10589					BE891630.1	EST_HUMAN	601434522F1 N/H_MGC_72 Homo sapiens cDNA clone IMAGE:3919636 51
10591	23128					N	Homo sapiens myosin, heavy polypeptide 2, skeletal muscle, adult (MYH2), mRNA
10591	23128	36140	2.44		N 8823839 NT	ΙN	Homo sapiens myosin, heavy polypeptide 2, skeletal muscle, adult (MYH2), mRNA
10608	23140	36152		0.0E	+00 BE903304.1	EST_HUMAN	601674332F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3957343 5'
10609	18572	31304	2.31	90.0	+00 AA195905.1	EST_HUMAN	과95b11.r1 Stratagene muscle 937209 Homo sapiens cDNA clone IMAGE:627933 5' similær to gb:X03740 MYOSIN HEAVY CHAIN, SKELETAL MUSCLE (HUMAN);
10630	23182	38174	8:	<u> </u>	+00 AA809080.1	EST HUMAN	nw17c08.s1 NCI_CGAP_GCB0 Homo sapiens cDNA clone IMAGE:1240718 3' similar to gb:X57809 IG LAMBDA CHAIN C REGIONS (HUMAN);
10632	1_				0.0E+00 BE793498.1	EST_HUMAN	801588829F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943015 5'
10840	23172	36183	-		0.0E+00 AV727362.1	EST_HUMAN	AV727362 HTC Homo sapiens cDNA clone HTCAQH06 5'
10640	l	36184		L	AV727362.1	EST_HUMAN	AV727382 HTC Homo sapiens cDNA clone HTCAQH08 5'
10654	_	36202	18.4		AW 516055.1	EST_HUMAN	xyō4g10.x1 NCI_CGAP_Lym12 Homo sapiens cDNA clone IMAGE:2852226 3' similar to gb:M\$0854 40S_RIBOSOMAL PROTEIN S16 (HUMAN);
10660	1	38207	3.16		0.0E+00 AU135741.1	EST_HUMAN	AU135741 PLACE1 Hamo sapiens cDNA clone PLACE1002794 S'
10665	23197	36210	2.88	90.0E	+00 AW 59333.1	EST_HUMAN	hg13d02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2945475 3' similar to contains element MSR1 repetitive element;
10885		<u> </u>	2.88	0.0	+00 AW 59333.1	EST HUMAN	hg13d02.x1 Soares_NFL_T_GBC_S1 Home sapiens cDNA clone IMAGE:2945475 3' similar to contains element MSR1 repetitive element;
	ı						

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		Γ		Γ	Γ	_	Τ	Τ	Γ	Γ	Γ	Γ	Γ	Γ	Γ	2	Τ	Τ	Γ	Γ			Γ	Γ	Γ		Γ	Γ		\prod
Тор Hit Descriptor	hg13d02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:29454753' similar to contains element MSR1 repetitive element;	H.sapiens mRNA for H1 histamine receptor	HSC3IC031 normalized infant brain cDNA Homo sapiens cDNA clone c-3ic03	Homo sapiens RGH1 gene, retrovirus-like element	Homo sapiens ryanodine receptor 1 (skeletal) (RYR1), mRNA	xw68f01.x1 NCI_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2832985.3' similar to gb:X17115 IG MU CHAIN C REGION (HUMAN):	UI-H-BI3-elh-a-01-0-UI.s.1 NCI CGAP Sub5 Homo septens cDNA clone IMAGE: 2736649 3	UI-H-BI3-alh-a-01-0-UI.s1 NCI_CGAP_Sub5 Home sapiens cDNA clone IMAGE:2736849 3'	Homo sapiens ribosomal protein L31 (RPL31) mRNA	Homo saplens mRNA for KIAA0667 protein, partial cds	601119248F1 NIH_MGC_17 Homo saplens cDNA clone IMAGE:3029219 5'	Homo sapiens mRNA for KIAA0545 protein, partial cds	601582046F1 NIH_MGC_7 Hano sapiens cDNA clane IMAGE:3936539 51	602141405F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4302432 5'	AU118386 HEMBA1 Homo sapiens cDNA clone HEMBA1003486 5'	xn72b01.x1 NCI_CGAP_CML1 Homo sepiens cDNA clone IMAGE:2698977 3' similar to gb:X02152_cds1 L- LACTATE DEHYDROGENASE M CHAIN (HUMAN):	qf43c03.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1752772 3	qf43c03.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1752772.3'	QV4-ST0234-121199-032-b06 ST0234 Homo sapiens cDNA	AU116908 HEMBA1 Homo sapiens cDNA clone HEMBA1000255 5'	Homo sapiens insulin receptor (INSR), mRNA	QV0-UM0093-170400-191-d06 UM0093 Homo sepiens cDNA	QV0-UM0093-170400-191-d06 UM0093 Homo sapiens cDNA	602037014F1 NC _CGAP_Brn64 Homo sapiens cDNA clone IMAGE:4184979 5	801148357F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3163310 5'	Human protein kinase C substrate 80K-H (PRKCSH) gene, exon 15-17	RC1-FT0134-170700-012-107 FT0134 Homo sapiens cDNA	RC1+FT0134-170700-012-107 FT0134 Homo sapiens cDNA	ob32e07.s1 NCI_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1326412.3' similar to contains element MSR1 repetitive element;	Homo sapiens signaling lymphocytic activation molecule (SLAM) gene, exon 2
Top Hit Database Source	EST_HUMAN	LN	EST_HUMAN	LN	IN	FST HUMAN	EST HUMAN	EST_HUMAN	۲	۲	EST_HUMAN	ΝT	EST_HUMAN	EST_HUMAN	EST_HUMAN	FST HUMAN	EST HUMAN	EST HUMAN	EST_HUMAN	EST_HUMAN	NT	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	۲	EST_HUMAN	EST_HUMAN	EST_HUMAN	NT
Top Hit Acession No.	0.0E+00 AW59333.1	234897.1	F13069.1	510083.1	11425570 NT	4W338094 1	0.0E+00 AW451230.1	4W451230.1	4506632 NT	4B014567.1	3E298449.1	4B011117.1	0.0E+00 BE792155.1	3F684061.1	AU118386.1	0 0F+00 AW 236269 1		l		4U116908.1	11424728 NT	0.0E+00 AW804516.1	4W804516.1	3F340308.1	3E261209.1	J50326.1	3E773036.1	3E773036.1		0.0E+00 AF252303.1
Most Similar (Top) Hit BLAST E Value	0.0E+00	0.0E+00 Z34897.1	0.0E+00	0.0E+00	0.0E+00	00F+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	00+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Expression Signal	2.88	1.99	3.18	3.91	33.46	3.59	5.84	5.84	16.23	2.17	2.26	1.99	2.18	78.35	4.66	8 15	7.25	7.25	3.47	1.54	20.95	1.89	1.89	2.04	39.28	3.78	3.48	3.48	55.63	3.04
ORF SEQ ID NO:				36220	38222	36239		36241			36259				36288			36293				36307		36309						36358
Exan SEQ ID NO:		23199		23208	23211		23226	[23256	23270	23271	23273	23274	23279	23279	23280	23292	23295	23301	23301	23302	23303	23313	23317	23317	23337	1 1
Probe SEQ ID NO:	10865	10667	10668	10676	10679	10895	10696	10696	10699	10701	10714	10730	10746	10747	10749	10750	10755	10755	10758	10768	10771	10777	10777	10778	10779	10790	10794	10794	10816	10822

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Single Exon Probes Expressed in retail Liver	Top Hit Descriptor		4N 601192748F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3536867 5									AN AV701152 ADA Homo sepiens cDNA clone ADAAAD08 5'			AN UI-HF-BNO-akg-d-02-0-UI:r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077019 5	bb78c04,y1 NIH_MGC_10 Homo saplens cDNA clone IMAGE:3048488 5 similar to gb:Y00345_cds1 POLYADENYLATE-BINDING PROTEIN (HUMAN); gb:X65553 M.musculus mRNA for poly(A) binding		AN 601440446F1 NIH_MGC_72 Homo sapiens cDNA clane IMAGE:3925403 5'		AN ax88g11.x1 Schiller meningioma Homo sapiens cDNA clone IMAGE:1952804 3'	AN DKFZp434L0120_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434L0120 5'	Homo sapiens neurexin III (NRXN3) mRNA			Homo saplens mRNA for KIAA0717 protein, partial cds	Homo sapiens mRNA for KIAA0717 protein, partial cds	be04d07.y1 NIH_MGC_7 Homo sepiens cDNA clone IMAGE:2823373 5' similar to TR:076022 076022 E1B- AN 55KDA-ASSOCIATED PROTEIN.;	╗		\neg	\Box	AN RC3-HT0230-040500-110-h04 HT0230 Homo sapiens cDNA
LOX L	Top Hit Datebase Source	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HI	EST_HUMAN	EST_HUMAN	EST HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN		EST_HUMAN	EST_HUMAN	EST_H	EST HUMAN	EST_HUMAN	ΝT	EST_HUMAN	EST_HUMAN	NT	N L	EST_HUMAN	EST_HUMAN	EST_HUMAN	Ę.	EST_HUMAN	EST H
elgine	Top Hit Acession No.	0.0E+00 BE266478.1	BE266478.1	0.0E+00 C05089.1	0.0E+00 AA746375.1	0.0E+00 AA746375.1		-		0.0E+00 BE182380.1	0.0E+00 BE182360.1	0.0E+00 AV701152.1	0.0E+00 BE896423.1	0.0E+00 AW 500307.1	0.0E+00 AW 500307.1		0.0E+00 BE018293.1	0.0E+00 BE897953.1		0.0E+00 AI459545.1	0.0E+00 AL042278.1	4758827 NT	0.0E+00 BF206561.1	AW 207734.1	AB018260.1	0.0E+00 AB018260.1	0.0E+00 BE206846.1	0.0E+00 BE206846.1	0.0E+00 BF093687.1		0.0E+00 BE148076.1	
	Most Similar (Top) Hit BLAST E Value	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00		0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 L32832.1	0.0E+00	0.0E+00
	Expression (Signal	1.92	1.92	6.99	2.16	2.18	80.8	12.62	2.07	3.17	3.17	1.8	3.19	69.1	1.69		8.2	5.22	1.99	1.99	1.82	3.57	. 8.71	20.4	6:39	6:39	3.28	3.28	2.05	2.13	3.38	3.38
	ORF SEQ ID NO:	36371	38372	36374	38382	36383	38385	36404	38419	38453	38454		36467	36474	38475		36478	36516	36517	38518	38530	36568	36569	36573	38577	38578	36579	38580	36602	32877	36604	36605
	SEQ ID	23356	23356	23359	23366	23388	23377	23389	23402	23432	23432	23433	23448	23452	23452		23455	23487	23488	23468	23500	23532	23533	23537	23542	23542	23543	23543	23588	20011	23569	23569
	Probe SEQ IO NO:	10835	10835	10838	10845	10845	10856	10868	10881	10913	10913	10914	10928	10835	10935		10938	10972	10973	10973	10986	11018	11019	11023	11028	11028	11029	11029	11053	11054	11057	11057

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Top Hit Descriptor	П	Т	Т	602132459FI NIH MGC 81 Hamp sapiens CONA clone IMAGE:4271830 5	Г	Г	Human mRNA for KIAA0241 gene, partial cds	Г		Homo sapiens mRNA for KIAA1316 protein, partial cds	Homo sapiens retinoblastoma-like 2 (p130) (RBL2), mRNA	Homo sapiens retinoblastoma-like 2 (p130) (RBL2), mRNA	Homo saplens eukaryotic translation initiation factor 5A (EIF5A) mRNA	Г		Г			Г	Human beta-prime-adaptin (BAM22) gene, exon 16	Human beta-prime-adaptin (BAM22) gene, exon 16	П	Homo sapiens fyn-related kinase (FRK) mRNA	Homo saplens golgin-like protein (GLP), mRNA			Ι.	П	ba04407.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823373 5' similar to TR:076022 076022 E18- 55KDA-ASSOCIATED PROTEIN	1	
Top Hit Database Source	EST HUMAN	TOT HUMAN	EST HUMAN	EST HUMAN	EST_HUMAN	EST_HUMAN	Ę	EST_HUMAN	NT TN	FZ	Ę	N	Z	EST_HUMAN	EST_HUMAN	LN	EST_HUMAN	EST_HUMAN	EST_HUMAN	LΝ	LΝ	EST_HUMAN	LΝ	IN	EST_HUMAN	EST_HUMAN		EST HUMAN	EST HUMAN	EST HUMAN	EST_HUMAN
Top Hit Acessian No.	±+00 BF507876.1	0.0E+00 BF50/8/6.1	0.0E+00 AC135170.1		+00 BE876401.1	0.0E+00 BE876401.1	0.0E+00 D87682.1	0.0E+00 BF240538.1	:+00 AB037737.1	0.0E+00 AB037737.1	11430868 NT	11430868 NT	4503544 NT	0.0E+00 BF576267.1	AW328173.1	:+00 M55083.1	0.0E+00 BF306996.1	BF306996.1	:+00 BF362462.1	0.0E+00 U36264.1	U36264.1	+00 BE897051.1	4503786 NT	8923698 NT	0.0E+00 BF207662.1	+00 BE257744.1		+00 BE206846.1	0.0E+00 BE206846.1	+00 AW753028.1	0.0E+00 AA558707.1
Most Similar (Top) Hit BLAST E Value	0.0E+00	0.05+00	0.0E+00		0.0E		ŀ	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00		0.0E+00	0.0E+00	0.0E+00	0.0E+00
Expression Signal	5.37	3.07	1.61	1.61	8.62	8.62	1.85	5.3	3.05	3.05	3.57	3.57	9.12	1.66	6.44	46.81	5.47	5.47	45.22	1.99	1.99	6.26	1.61	2.82	2.56	7.59		5.51	5.51	4.56	3.42
ORF SEQ ID NO:	36844	\perp					36664								36718		·				36758			36774				36820	36821	36823	
Exan SEQ ID NO:	23604	23644		Ь.					23640	23640	23645	23645				23675	23680	23680	23686	23706	23706	23710	23711	23720	23722	23723		23764	23764	23766	23771
Probe SEQ ID NO:	11092	11101	11105	11105	11106	11106	11113	11119	11132	11132	11137	11137	11154	11162	11165	1168	11173	11173	11180	11201	133	11205	11208	11217	11219	11220		11233	11233	11235	11240

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										NININ	_			200409												0.2	Q13458	
Top Hit Descriptor	wpd8g08x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2464094 3'	dr02b08.x1 NIH_MGC_3 Homo saplens cDNA clone IMAGE:2846919 5'	UI-H-BW0-aj-d-07-0-UI.s1 NCI_CGAP_Sub6 Homo sapiens cDNA clone IMAGE:2729509 3	Homo sapiens neureadn III (NRXN3) mRNA	601659088R1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3895916 3'	601659088R1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3895916 3'	L5-HT0731-020500-077-f05 HT0731 Homo sapiens cDNA	DKFZp434G178_r1 434 (synonym; htes3) Homo sapiens cDNA clone DKFZp434G178 5'	DKFZp434G178_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434G178 5'	wn83g03.x1 NCL_CGAP_Ut1 Homo sepiens cDNA clone IMAGE:2452468 3' similar to gb:S37431 LAMININ RECEPTOR (HUMAN);	nz11c07.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1287468 3' similar to TR:Q13886 Q13886 ALKB HOMOLOG PROTEIN ;	nz11c07.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1287468 3' similar to TR:Q13886 Q13886 ALKB HOMOLOG PROTEIN ;	801501090F1 NIH_MGC_70 Homa sapiens cDNA clane IMAGE:3902926 5'	7/27/12.x1 NC_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:3295919 3' similar to TR:000409 000409 CHECKPOINT SUPPRESSOR 1.;	AV757420 BM Homo sapiens cDNA clone BMFAGH03 5'	Homo sapiens polycystic kidney disease-associated protein (PKD1) gene, complete cds	Homo sapiens polycystic kidney disease-associated protein (PKD1) gene, complete cds	AU138211 PLACE1 Homo sapiens cDNA clone PLACE1008077 5'	601441096F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3916270 5'	HA2767 Human fetal liver cDNA library Homo sapiens cDNA	HA2767 Human fetal liver cDNA library Homo sapiens cDNA	601572186T1 NIH_MGC_55 Homo saplens cDNA done IMAGE:3839012 3	601572186T1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:3839012 3	AU141882 THYRO1 Homo sapiens cDNA done THYRO1001398 5'	AU141882 THYRO1 Homo sapiens cDNA clone THYRO1001398 5	wz91h01.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2566225 3' similar to WP:F53H10.2 CE11040 ZINC FINGER, C2H2 TYPE ;	7h22b10.x1 NCI_CGAP_Co16 Homo sapiens cDNA clone IMAGE:3316699 3' similar to TR:Q13458 Q13458 TRIO. ;	MR4-ST0118-281099-012-b03 ST0118 Homo sapiens cDNA
Top Hit Database Source	EST_HUMAN	EST_HUMAN	EST_HUMAN	۲	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST HUMAN	EST HUMAN	EST_HUMAN	EST_HUMAN	Z	TN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN
Top Hit Acession No.	E+00 AI934954.1	E+00 AW327895.1	E+00 AW 292776.1	4758827 NT	E+00 BE965909.2	E+00 BE965909.2	E+00 BE185656.1	E+00 AL046540.1	E+00 AL046540.1	E+00 AI923116.1	E+00 AA760913.1	A760913.1	0.0E+00 BE910546.1			0.0E+00 L39891.1		.1	0.0E+00 BE622317.1		1207425.1	E748899.1	0.0E+00 BE748899.1	0.0E+00 AU141882.1	JU141882.1	E+00 AW006022.1	F002333.1	0.0E+00 AW387776.1
Most Similar (Top) Hit BLAST E Value	0.0E+00 /	0.0E+00	0.0E+00	0.0E+00	0.05+00	0.0E+00	0.0E+00	0.0E+00	0.05+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 AU138211	0.0E+00	0.0E+00	0.0E+00 AI207425.1	0.0E+00	0.0E+00	0.0E+00	0.0E+00/	0.0E+00	0.0E+00	0.0E+00/
Expression Signal	80.9	9.55	1.58	2.1	1.59	1.59	4.55	5.82	5.82	16.85	4		2.02	7.16	1.69	3.55	3.55	4.02	9.87	11.61	11.61	36.86	36.86	2.19	2.19	2.52	3.76	3.81
ORF SEQ ID NO:	30521					36782	36783	36796	36797	36807	36851	38852	36858		36030	36865	36866		36896	36900					36941	36944	36947	
Exon SEQ ID NO:	L	23772	Ш	23004	1	l		23740	23740	23750	23794	23794			23021	23806	23806	23818	23833	23838		ŀ	ı			23879	L	23900
Probe SEQ ID NO:	11241	11242	11260	11266	11274	11274	11275	11288	11288	11298	11301	11301	11306	11314	11323	11352	11352	11366	11381	11386	11386	11415	11415	11425	11425	11428	11431	11450

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. Top Hit Descriptor	MR4-ST0118-281099-012-b03 ST0118 Homo sapiens cDNA	MR3-SN0010-310300-107-h03 SN0010 Homo sepiens cDNA	Homo sapiens KIAA0247 gene product (KIAA0247), mRNA	Homo sapiens KIAA0247 gene product (KIAA0247), mRNA	Human beta-primo-adaptin (BAM22) gene, exon 5	601237691F1 NIH_MGC_44 Homb sapiens cDNA clone IMAGE:3609623 5'	801237691F1 NIH_MGC_44 Homo seplens cDNA clone IMAGE:3609623 5'	601590588F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3944708 5'	601491821F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3894220 5	601299403F1 NIH_MGC_21 Homo saplens cDNA clone IMAGE:3629544 5'	MR0-HT0241-150500-011-f02 HT0241 Homo sapiens cDNA	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, atternatively	pained	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced	Human gene for dihydrolipoamide succinytransferase, complete cds (exon 1-15)	Human gene for dihydrolipoamide succinytransferase, complete cds (exon 1-15)	AU132940 NT2RP4 Homo sapiens cDNA clone NT2RP4000929 5'	601676357F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3958935 5	601897524F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4127069 5:	601897524F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4127069 5'	Human lambda-immunoglobulin constant region complex (germline)	Humen lambda-immunoglobulin constant region complex (germline)	601498553F1 NIH_MGC_70 Homo sepiens cDNA clone IMAGE:3900396 5'	Human endogenous retrovirus, complete genome	601890534F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4131416 5'	601177407F1 NIH_MGC_17 Homo sepiens cDNA clone IMAGE:3532968 5'	DKFZp434D0415_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434D0415 5	601150023F1 NIH_MGC_19 Hamo sepiens cDNA clone IMAGE:3503020 5	Homo sapiens chromosome 21 segment HS21C046	qe17b12.x1 Soares_feta_lung_NbHL19W Homo sapiens cDNA clone IMAGE:1739231 3'	Homo sapiens gene for AF-6, complete cds	Homo sapiens chromosome 21 segment HS21C046
Top Hit Database Source	EST HUMAN	EST_HUMAN				HUMAN	EST_HUMAN	EST_HUMAN	П	EST_HUMAN	EST_HUMAN		Z	۲	N	N	EST HUMAN	EST_HUMAN	HUMAN	EST_HUMAN	NT		T_HUMAN		EST_HUMAN	EST_HUMAN	Г	Г	П	EST_HUMAN		NT
Top Hit Acession No.	AW387776.1	0.0E+00 AW863777.1	11435244 NT	1435244		4.1	0.0E+00 BE379254.1	0.0E+00 BE794758.1	0.0E+00 BE879633.1	0.0E+00 BE409993.1	+00 BE148650.1		0.0E+00 AF223391.1	+00 AF223391.1	0.0E+00 D26535.1	0.0E+00 D26535.1	0.0E+00 AU132940.1	0.0E+00 BE903372.1	0.0E+00 BF312552.1	0.0E+00 BF312552.1	0.0E+00 X51755.1	0.0E+00 X51755.1	0.0E+00 BE908402.1	0.0E+00 9635487 NT	BF309120.1	0.0E+00 BE297175.1	+00 AL040793.1	0.0E+00 BE312542.1	0.0E+00 AL163246.2	0.0E+00 AI190993.1	0.0E+00 AB011399.1	+00 AL163246.2
Most Similer (Top) Hit BLAST E Value	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00		0.0E+00	0.05+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Expression Signal	3.81	2.48	3.38	3.38	7.44	12.8	12.8	2.5	115.56	18.86	19.1		3.08	3.08	1.77	1.77	2.03	4.44	1.84	1.84	3.01	3.01	4.03	1.74	23.39	55.98	7.09	6.23	1.78	8.17	3.67	4.16
ORF SEQ ID NO:	36968		06698				37000		37013		37027		37028	37029	30771	30772	37038	37040				37055		37078			37102					
SEQ ID	23900	23909	L	Ш	23926		23929			23956	23957		23958	23958	18292	18292	23966							24007	24803	24026	24032	25091	24925	24936	24097	24112
Probe SEO ID NO:	11450	11459	11471	11471	11476	11479	11479	11492	11493	11507	11508		11509	11509	11510	11510	11518	11521	11533	11533	11535	11535	11544	11560	11574	11580	11589	11652	11666	11668	11679	11699

WO 01/57277

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		т-	т-		т-	Τ-	$\overline{}$	T-		т	$\overline{}$	_			_		_	•	r-	_	_			_	_	_
Top Hit Descriptor	Homo sapiens ELK1 pseudogene (ELK2) and immunoglobulin heavy chain gamma pseudogene (IGHGP)	Homo saplens calcineurin binding protein 1 (KIAA0330), mRNA	Homo sapiens antioxidant protein 1 (AOP1), nuclear gene encoding mitochondrial protein, mRNA	Homo sepiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds	DKFZp434K0819_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434K0819 5*	Homo sapiens G-2 and S-phase expressed 1 (GTSE1), mRNA	DKFZp434G218_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434G218 5'	IL-BT030-271098-001 BT030 Homo sapiens cDNA	yv40e08.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:245222 3' similar to SW:POL_BAEVM P10272 POL POLYPROTEIN ;	Homo saplens adenylosuccinate lyase gene, complete cds	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA	Homo sapiens nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 2 (NFATC2), mRNA	Homo sapiens X-linked anhidroitic ectodermal dysplasia protein gene (EDA), expn 2 and flanking repeat regions	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA	hg31e06.x1 NC_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2847234 3' similar to contains Alu repetitive element; contains element MER22 repetitive element;	RC6-BT0711-290300-011-D05 BT0711 Homo sapiens cDNA	Hamo sapiens somatostatin receptor subtype 3 (SSTR3) gane, 5' flanking region and partial cds	Human endogenous retrovirus, complete genome	an05h04.x1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE: 1684759 3'	HTM1-654F HTM1 Homo sapiens cDNA	yo59e08.r1 Soares breast 3NbHBst Homo sepiens cDNA clone IMAGE:182246 5' similar to gb:IM64099 GAMMA-GLUTAMYLTRANSPEPTIDASE 5 PRECURSOR (HUMAN);	yo59e08.r1 Soares breast 3NbHBst Homo sepiens cDNa clone IMAGE:182246 5' similar to gb:M64099 GAMMA-GLUTAMYLTRANSPEPTIDASE 5 PRECURSOR (HUMAN);	Human gamma-cytoplasmic actin (ACTGP9) pseudogene	Homo sapiens thyroid autoantigen 70kD (Ku antigen) (G22P1), mRNA	Homo sapiens thyroid autoantigen 70kD (Ku antigen) (G22P1), mRNA
Top Hit Database Source	LN	۱۲	ĻΝ	FZ.	EST HUMAN	Ľ	EST_HUMAN	EST_HUMAN	EST HUMAN	Z	NT	ΝΤ	ĻΝ	TN	LZ LZ	EST_HUMAN	EST_HUMAN	1N	LN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	TN	NT	NT
Top Hit Acesslon No.	E+00 AB016195.1	11417862 NT	5802973 NT	AF240786.1	AL041931.1	11418318 NT	0.0E+90 AL046544.1	AI903497.1	E+00 N54484.1	AF106656.1	0.0E+00 4507500 NT	4507500 NT	10092587 NT	E+00 AF003528.1	11430460 NT	E+00 AW 590082.1	DE+00 BE090210.1	E+00 AF068757.1	9635487 NT	E+00 AI204914.1	E+00 BE439792.1	E+00 H30132.1	E+00 H30132.1	D50659.1	11418189 NT	11418189 NT
Most Similar (Top) Hit BLAST E Value	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	l				0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.05+00	0.0E+00 114
Expression Signal	1.35	3.59	5.98	1.49	4.78	4.26	11.29	2.62	2.35	4.72	5.46	5.46	2.49	3.24	4.32	24.36	1.5	2	4.18	1.93	1.52	4.92	4.92	33.19	3.51	3.51
ORF SEQ ID NO:				30711								26008			30870	30708						26855	26856		30828	
Exan SEQ ID NO:	24114		24134	24897	24908	25058	24184	24941	25079	24227	13490	13480	24945	13204	24720	24871		24938		24931	24927	14314	14314	24486	- 1	24469
Probe SEQ ID NO:	11701	11709	11728	11763	11774	11803	11812	11824	11862	11877	11880	11880	11889	11917	11955	12017	12028	12073	12112	12155	12199	12244	12244	12256	12259	12259

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	1		_		_	_		_	_			$\overline{}$	_
Top Hit Descriptor	Homo sapiens GTP binding protein 1 (GTPBP1) mRNA	hi86e06.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2979154 3'	Homo sapiens G protein-coupled receptor 24 (GPR24), mRNA	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA	Homo sapiens GST gene for cerebroside suffotransferase, exon 1, 2, 3, 4, 5	Homo sapiens cleavage and polyadenylation specific factor 1, 160kD subunit (CPSF1), mRNA	Homo sapiens chromosome 21 segment HS21C046	Homo saplens low density lipoprotein-related protein 2 (LRP2), mRNA	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA	Homo sapiens DNA for Human P2XM, complete cds	Homo sapiens DKFZp434P211 protein (DKFZP434P211), mRNA	Homo saplens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes,	(complete cds)
Top Hit Database Source	LZ	EST_HUMAN	NT	닐	N	F	NT	٦	NT LN	N.	IN		뉟
Top Hit Acession No.	4758489		4885312	6806918		9558724		6806918	11417862		7657020		E+00 AB026898.1
Most Similar (Top) Hit BLAST E Value	0.0E+00	0.0E+00	00-30.0	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00		0.0E+00
Expression Signal	1.42	1.61	5.09	2.86	2.55	1.67	2.92	2.02	1.55	2.54	4.31		2,35
ORF SEQ ID NO:	27289		28440	30492		30917		25754	30876				
Exen SEQ ID NO:	14717	24508	15963	18031	24566	24587	25102	13277	24670	24672	24876		24686
Probe SEQ ID NO:	12279	12318	12401	12409	12412	12453	12481	12488	12573	12578	12580		12600
	Exon ORF SEQ Expression (Top) Hit Top Hit Acession Signal BLASTE No. Source	Exon ORF SEQ Expression I Log Hit Acession I D NO: Signal BLAST E No. Source Signal 1.42 0.0E+00 4758488 NT Homo sapiens GTP binding protein 1 (GTPBi	Exam. SEQ ID NO: ORF SEQ ID ID NO: Expression Signal (Top) Hit Top Hit Acession Signal Top Hit Acession Database No. Top Hit Acession Signal Top Hit Acession Source Signal Top Hit Acession Source Signal 1.42 No. Source Source Source Source Source Source Source Source Source Source Source Source Source Source National Applications (No. 1.42 0.0E+00 4758489 INT EST_HUMAN	Exam. SEQ ID NO: ORF SEQ ID ID NO: Expression Signal Top Hit Acession (Top) Hit Top Hit Acession Source Top Hit Acession Database Source 14717 27289 1.42 0.0E+00 4758489 INT 24508 1.61 0.0E+00 AW684999.1 EST_HUMAN 15963 28440 5.09 0.0E+00 4885312 INT	Exam SEQ ID ID NO: ORF SEQ Signal Expression Top Hit Palas Top Hit Top Hit No. Top Hit No. Top Hit Source Value 14717 27289 1,42 0.0E+00 4758488 NT 24508 1,61 0.0E+00 AW684999.1 EST_HUMAN 15933 28440 5,09 0.0E+00 48883312 NT 18031 30492 2,86 0.0E+00 6806918 NT	Exam SEQ ID NO: ORF SEQ Signal Expression Top Hit PLASTE Top Hit No. Top Hit Position Plants Top Hit No. Top Hit Source A758489 NT 14717 27289 1.42 0.0E+00 A758489 NT Source A758489 NT 24508 1.61 0.0E+00 AW684999.1 EST_HUMAN 15663 28440 5.09 0.0E+00 A885312 NT 18031 30492 2.86 0.0E+00 A8059918 NT 24568 2.86 0.0E+00 A8029900.1	Exam SEQ ID NO: ORF SEQ Signal Expression (Top) Hit PLASTE Top Hit Acession No. Top Hit Acession Signal Top Hit Acession Value Top Hit Acession Source 14717 27289 1.42 0.0E+00 4758489 INT 24508 1.61 0.0E+00 AW664999.1 EST_HUMAN 15663 28440 5.09 0.0E+00 6806918 INT 24568 2.55 0.0E+00 A8028900.1 INT 24568 2.55 0.0E+00 A8028900.1 INT 24568 2.55 0.0E+00 A8028900.1 INT 24567 30917 1.67 0.0E+00 A8028900.1 INT	Exam SEQ ID NO: ORF SEQ Signal 1D NO: Expression Signal Signal 1A217 (Top) Hit Cap Hit ASSIGNE 1A21 Top Hit Acession No. Top Hit Acession No. Top Hit Acession Source AV56488 NT 14717 27289 1.42 0.0E+00 4758488 NT 1560 0.0E+00 AW664999.1 EST_HUMAN 1560 0.0E+00 AW664999.1 NT 18031 30492 2.86 0.0E+00 6806918 NT 24566 2.55 0.0E+00 A8029900.1 NT 24587 30917 1.67 0.0E+00 9558724 NT 25102 0.0E+00 AL163246.2 NT	Exam SEQ ID NO: ORF SEQ Signal 1D NO: Expression Signal Signal 1.42 (Top) Hit Cap Hit No. Top Hit Acession No. Top Hit Acession Source A758488 NT 14717 27289 1.42 0.0E+00 4758488 NT 15963 28440 5.09 0.0E+00 AW664999-1 EST_HUMAN 15963 28440 0.0E+00 A863312 NT 24568 2.56 0.0E+00 A8028900.1 24587 30917 1.67 0.0E+00 A8028900.1 25102 2.92 0.0E+00 A8028900.1 25754 2.02 0.0E+00 AR6028900.1	Exam SEQ ID NO: ORF SEQ Signal ID NO: Expression Signal Signal ID NO: (Top) Hit Signal Value Value ILAST Top Hit Acession NO: Top Hit Acession Source A758489 NT Top Hit Acession Source A758489 NT 142177 27289 1.42 0.0E+00 4758489 NT Top Hit Acession Source A758489 NT Source Source A758489 NT 14303 28440 5.09 0.0E+00 4885312 NT NT 24566 2.56 0.0E+00 A802890.1 NT 24587 30917 1.67 0.0E+00 A602890.1 25102 0.0E+00 A602890.1 NT 25102 0.0E+00 A602890.1 25103 0.0E+00 A6028918 NT 25104 0.0E+00 A608918 NT 25104 0.0E+00 A608918 NT 2510 0.0E+00 A608918 NT	Exam SEQ ID NO: ORF SEQ Signal ID NO: Expression Signal Signal ID NO: Top Hit Signal ILASTE Value Value ILASTE ISGS Top Hit NO: Top Hit No. Top Hit Source A758489 NT 142177 27289 1.42 0.0E+00 4758489 NT Database Source A758489 NT 14303 28440 5.09 0.0E+00 4758489 NT NT 18031 30492 2.86 0.0E+00 4885312 NT 24567 2.55 0.0E+00 A8029900.1 NT 24567 2.05 0.0E+00 A80229900.1 NT 24572 2.02 0.0E+00 A1.163246.2 NT 24570 30876 1.55 0.0E+00 A1.1417862 NT 24670 30876 1.55 0.0E+00 A14417862 NT 24672 30876 0.0E+00 A8002059.1 NT	Exon NO: ORF SEQ ID ID NO: Signal Similar Signal Signal Signal Signal ID NO: Top Hit Acession Signal Signal ID NO: Top Hit Acession Signal ID NO: Top Hit Acession Source No: Signal ID NO:	Exon No: SEQ ID 10 NO: Sequential SEQ ID 10 NO: Signal No: SEQ ID 10 NO: Signal No: Signal No: Signal No: Sequential N

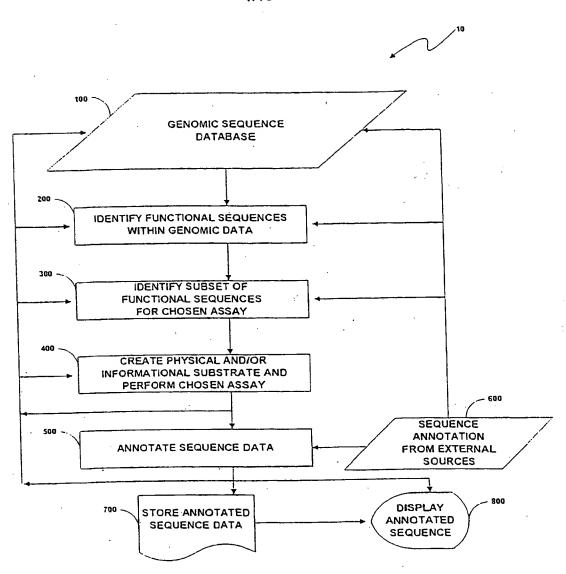


Fig. 1

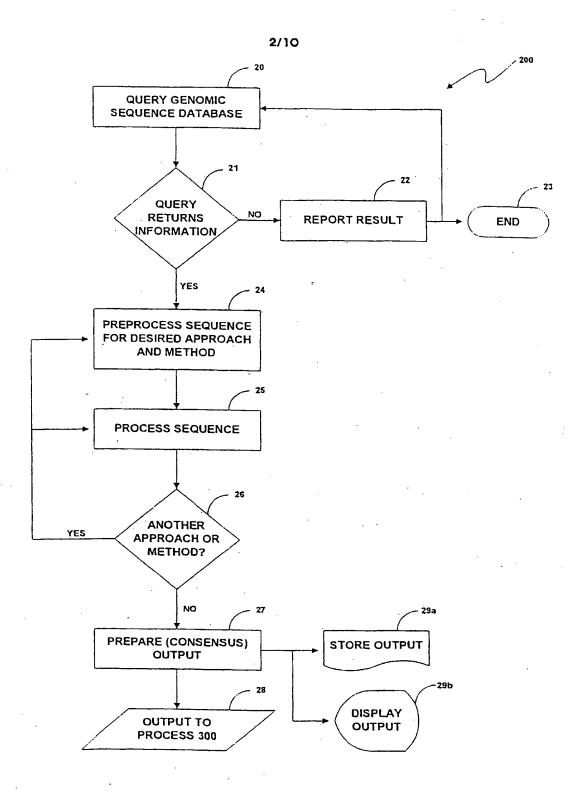


Fig. 2

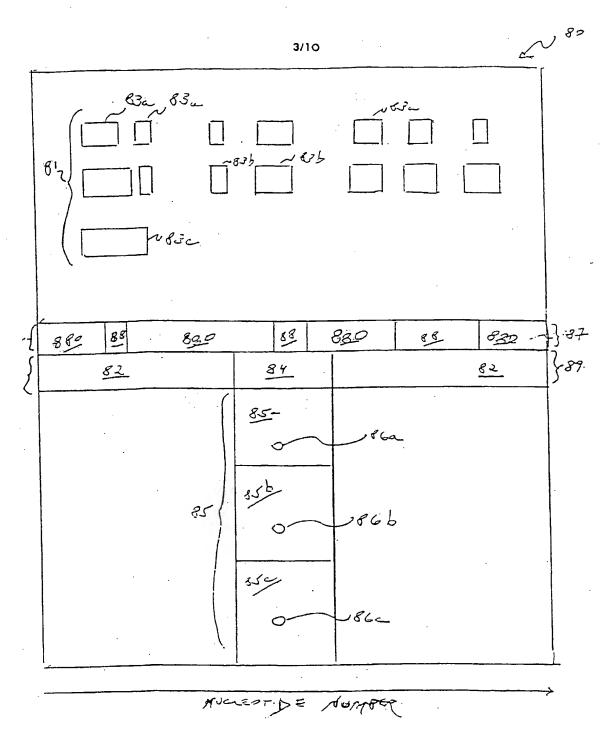


Fig. 3

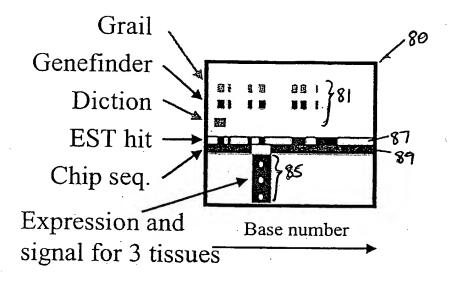


Fig. 4

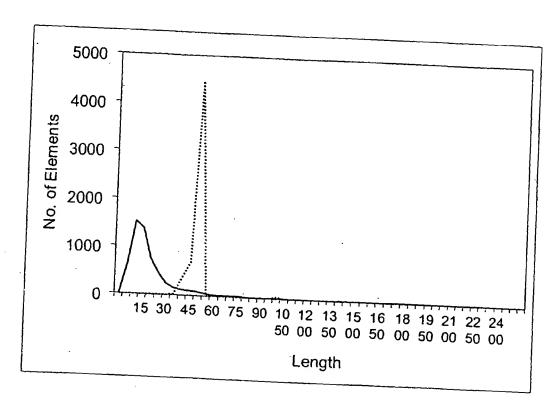


Fig. 5

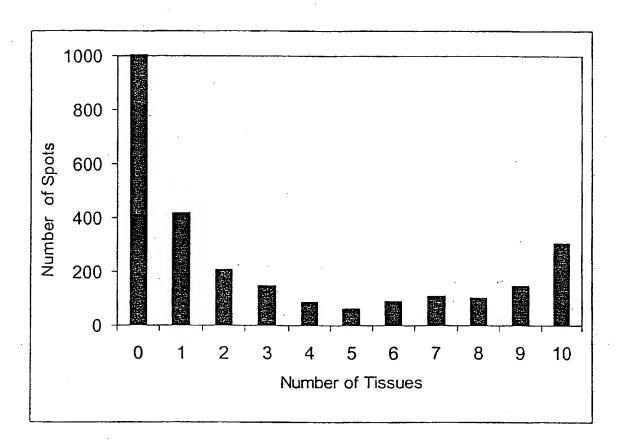
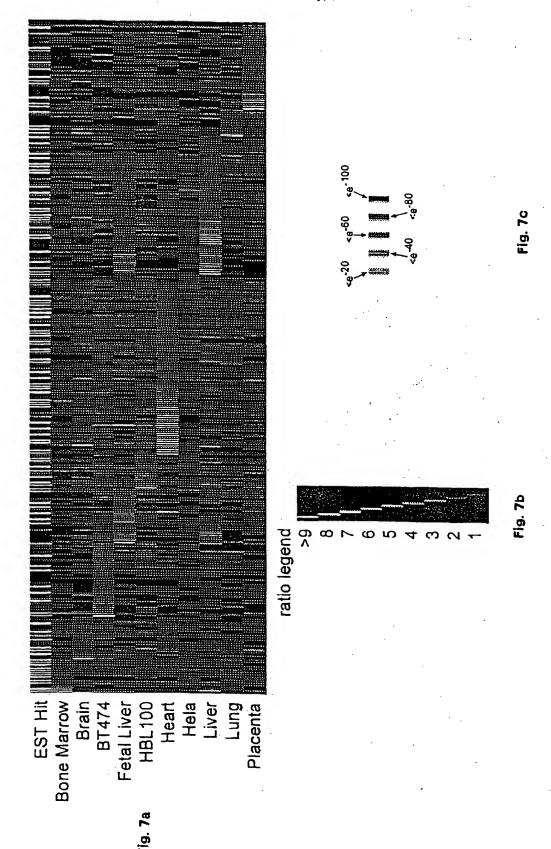
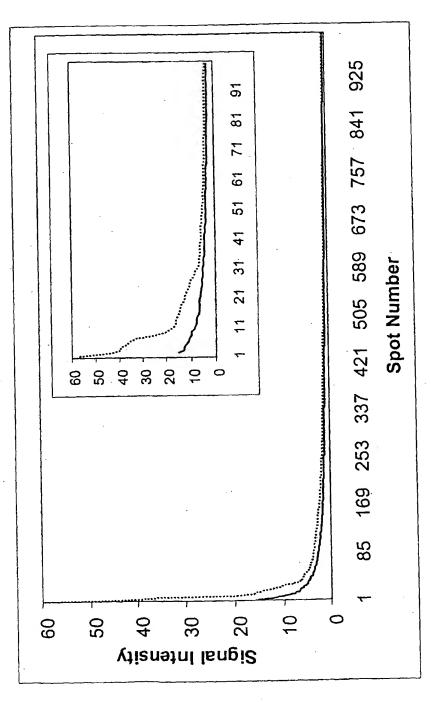


Fig. 6





Fla. B

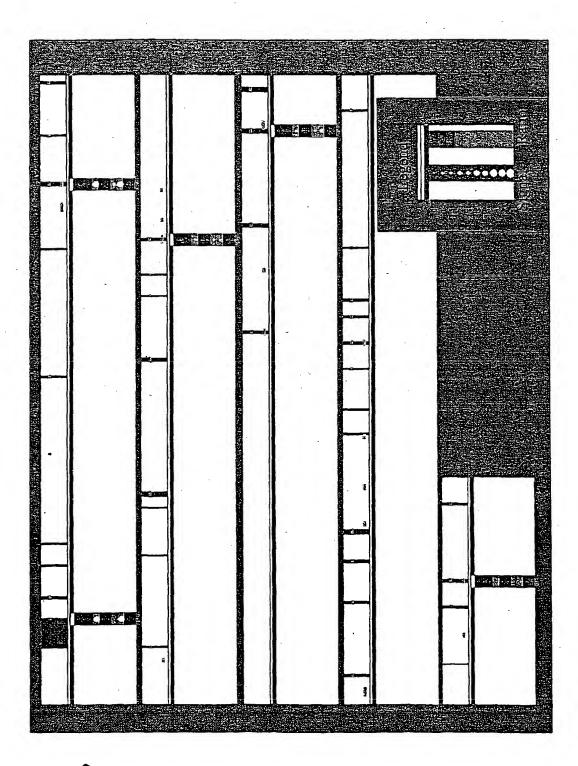


Fig. 10

